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THE

VOYAGE OF H.M.S. CHALLENGER.

ZOOLOGY-VOL. IX.

PLATES.



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REPORT

ON THE

SCIENTIFIC RESULTS

OF THE

VOYAGE OF H.M.S. CHALLENGER

DURING THE YEARS 1873-76

UNDER THE COMMAND OF

CAPTAIN GEORGE S. NARES, R.N., F.R.S.

AND

CAPTAIN FRANK TOURLE THOMSON, R.N.

PREPARED UNDER THE SUPERINTENDENCE OF

THE LATE

Sir C. WYVILLE THOMSON, Knt., F.R.S., &c.

REGIUS PROFESSOR OF NATURAL HISTORY IN THE UNIVERSITY OF EDINFURGH DIRECTOR OF THE CIVILIAN SCIENTIFIC STAFF ON BOAKI

AND NOW OF

JOHN MURRAY, F.R.S.E.

ONE OF THE NATURALISTS OF THE EXPEDITION

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NUBECULARIA_MILIDLA

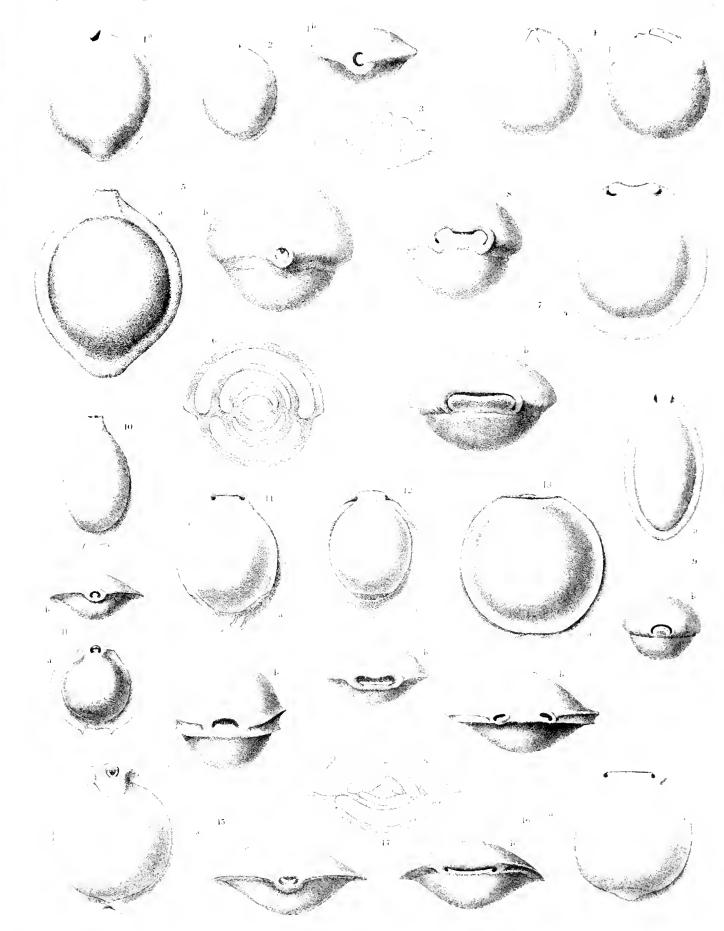


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PLATE II.

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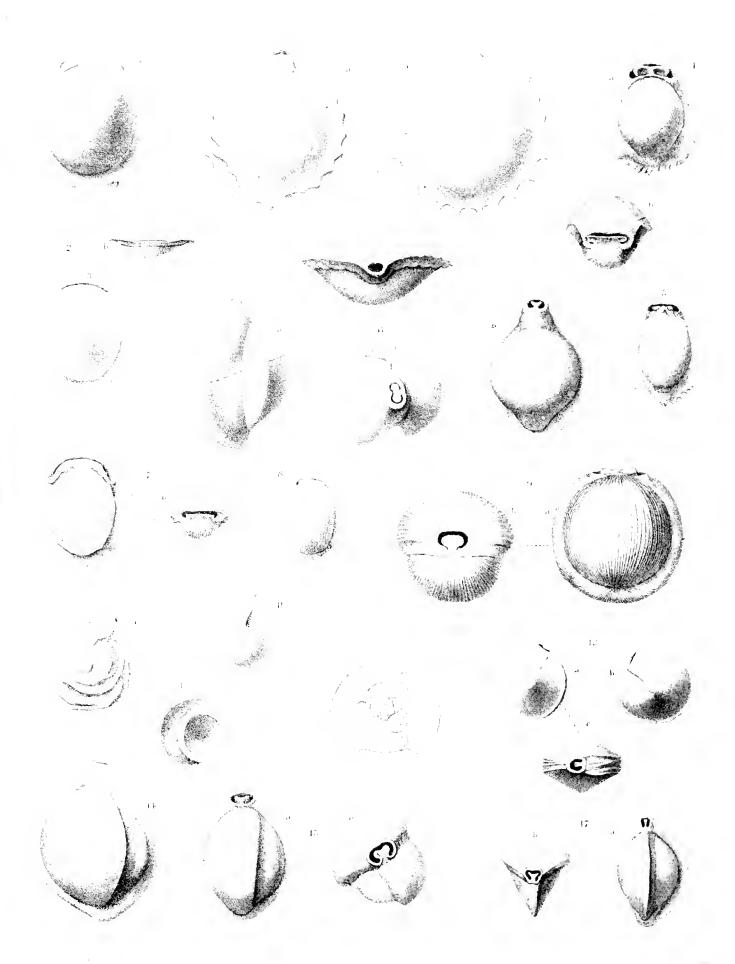
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PLATE III.

PLATE III.

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MILIOLA

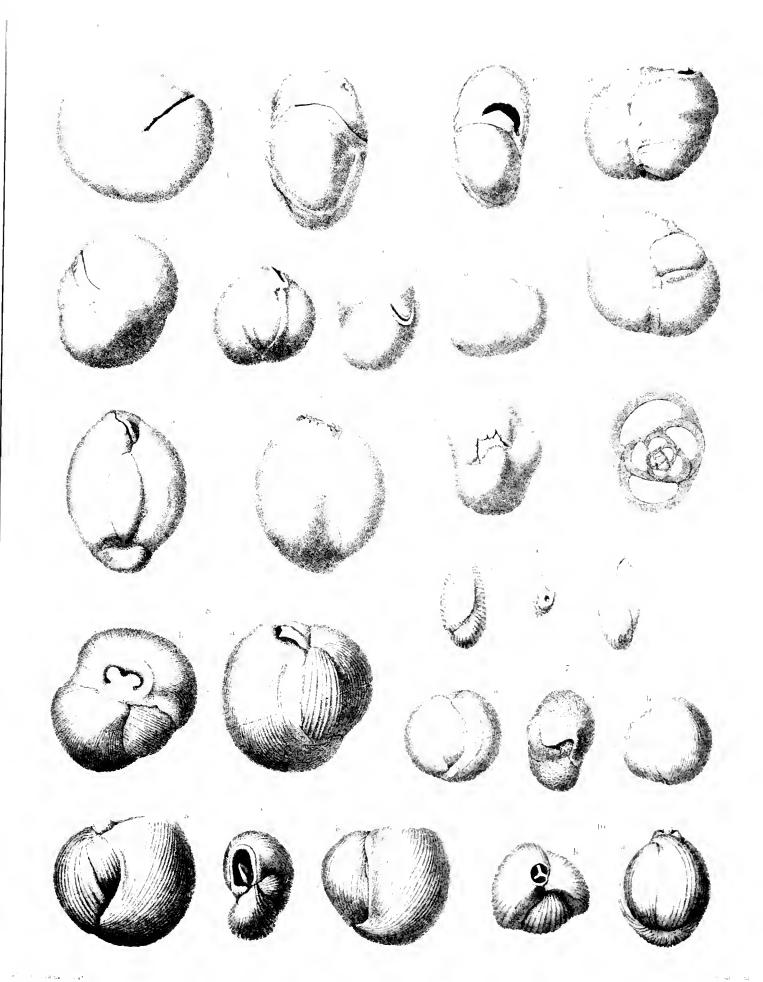


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PLATE IV.

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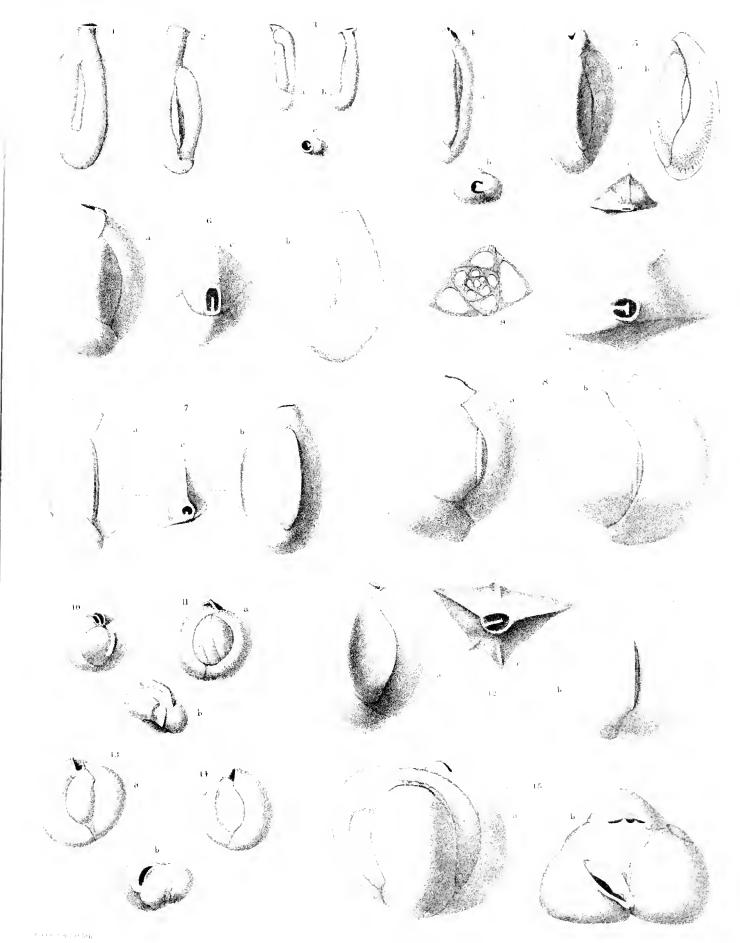
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PLATE V.

PLATE V.

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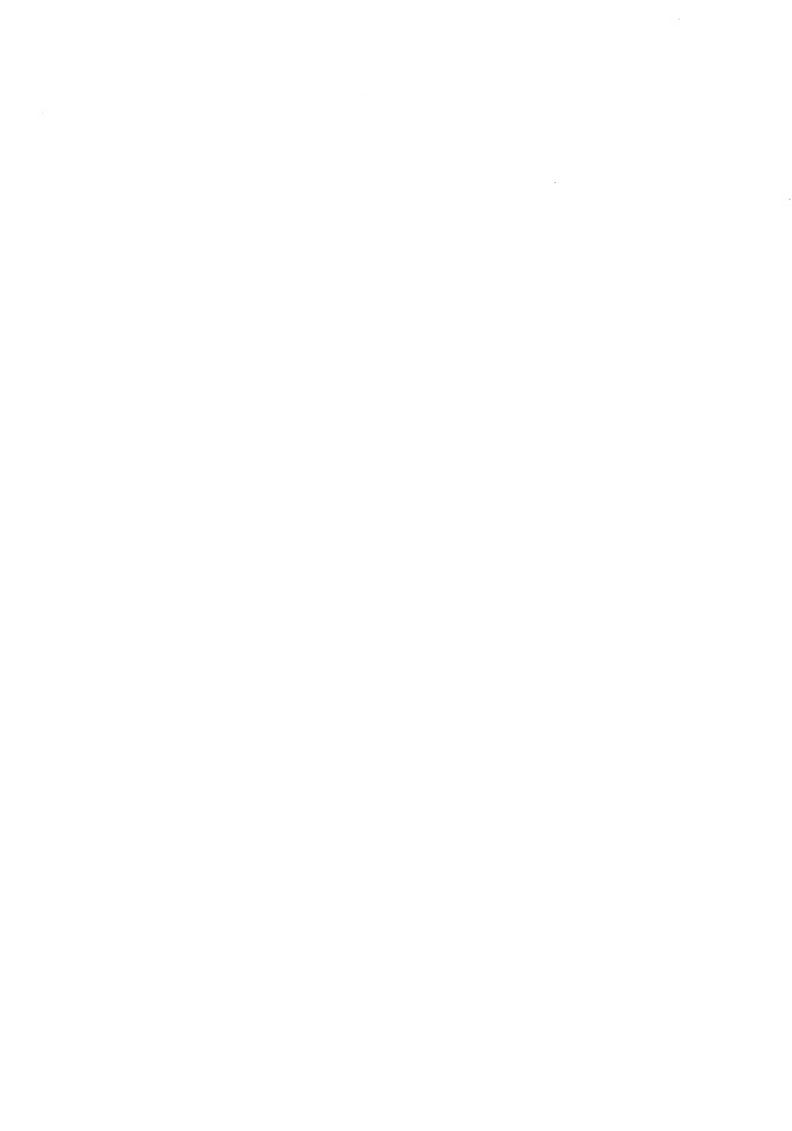
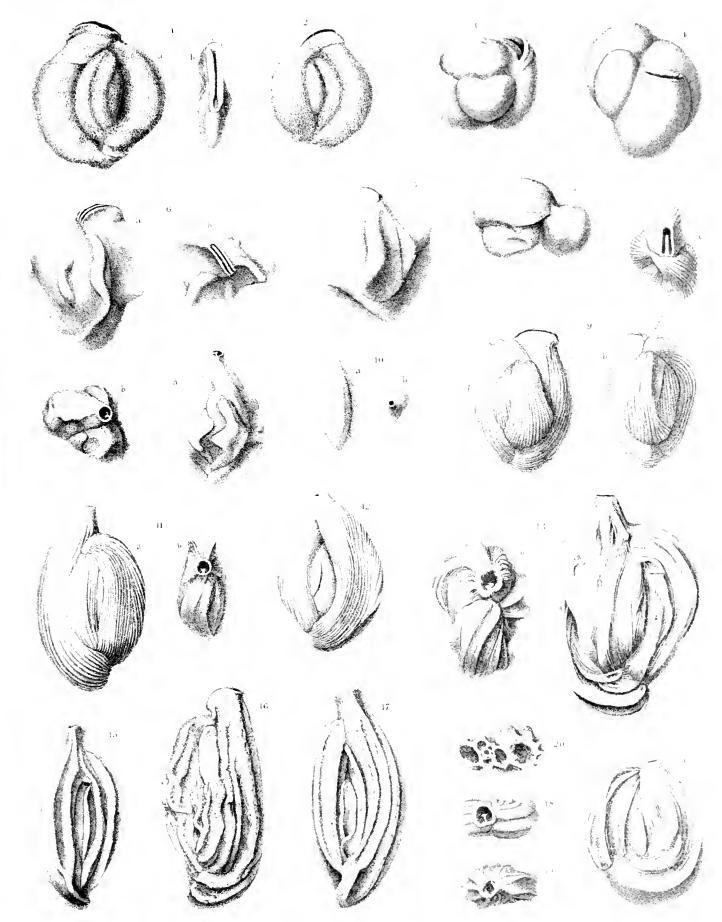


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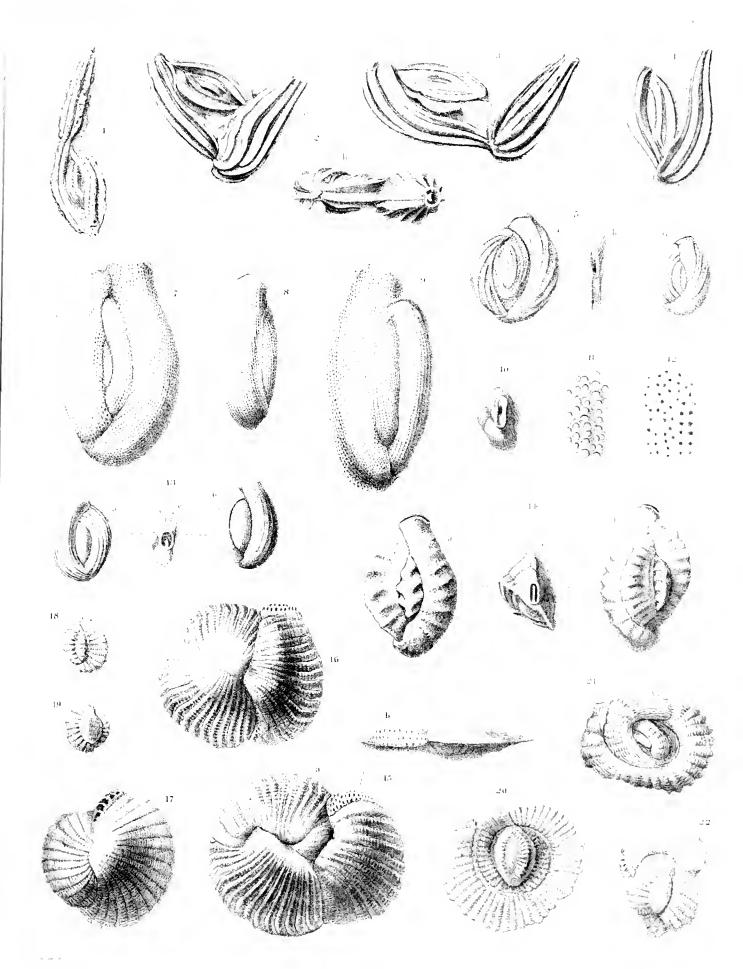


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PLATE VII.

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1				



MILIOLA :



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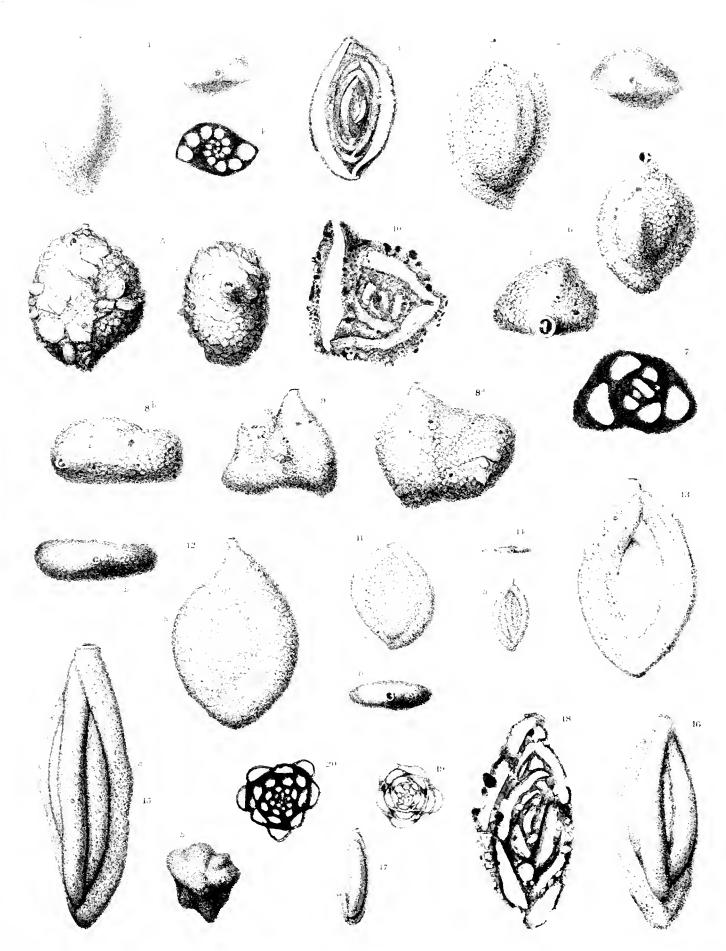
PLATE VIII.

PLATE VIII.

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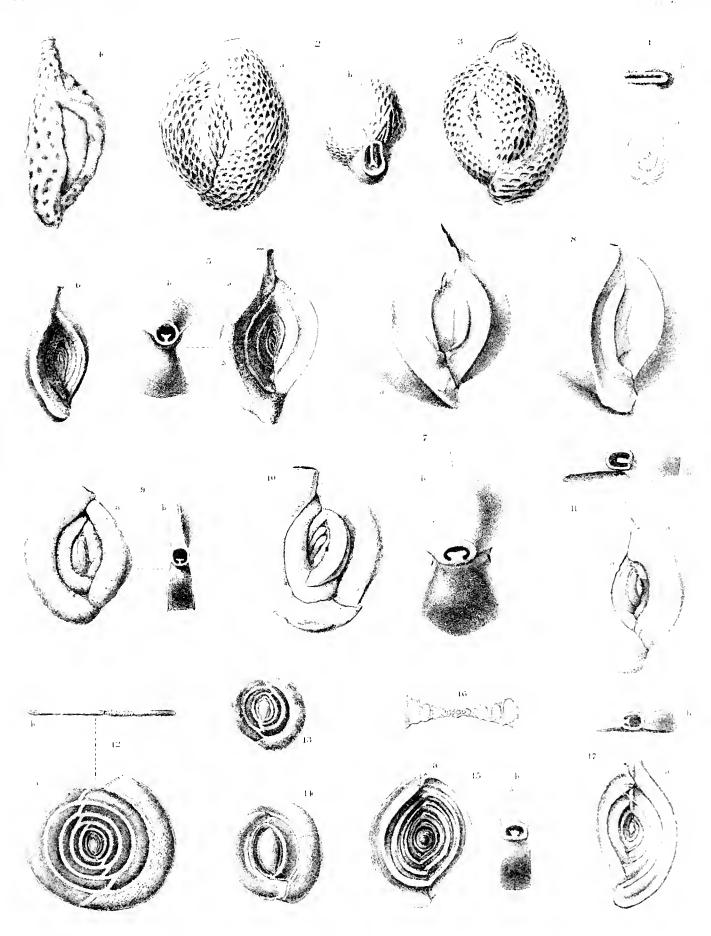


PLATE IX.

PLATE IX.

MILIOLINA.—SPIROLOCULINA.

50 25 30	183 177 151
30	151
20	150
50 40	149
35	148
50	149
50 30 30	150
	50 40 35 50 50



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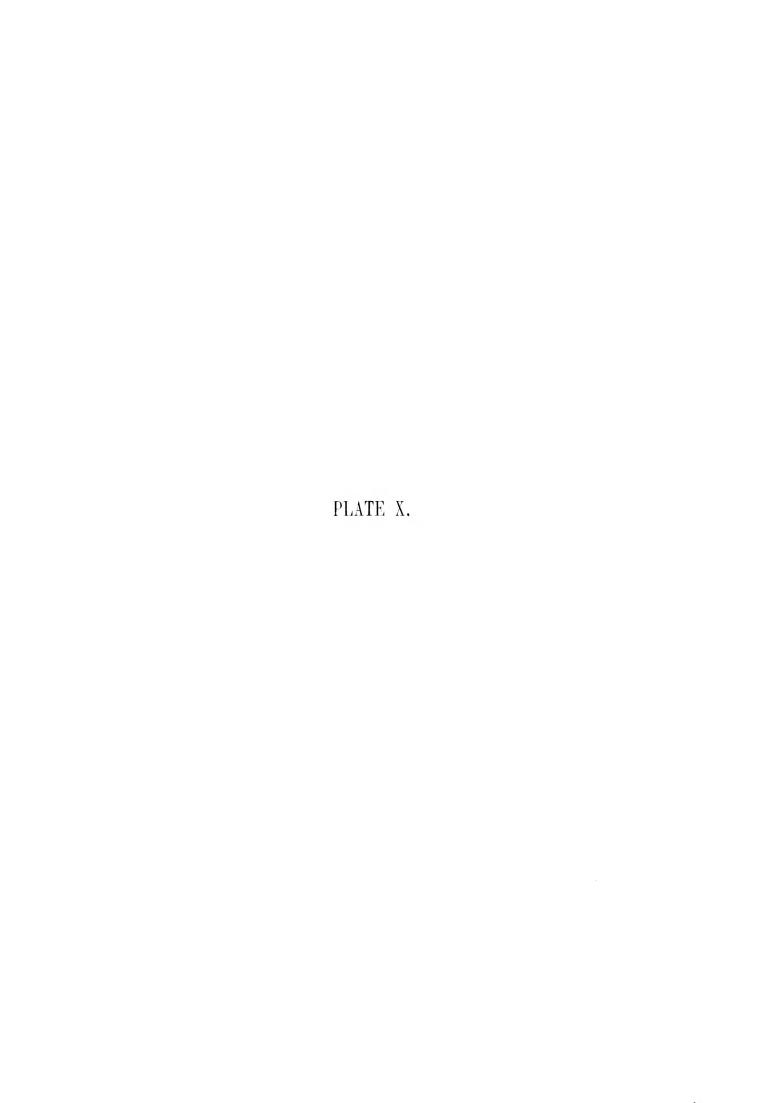
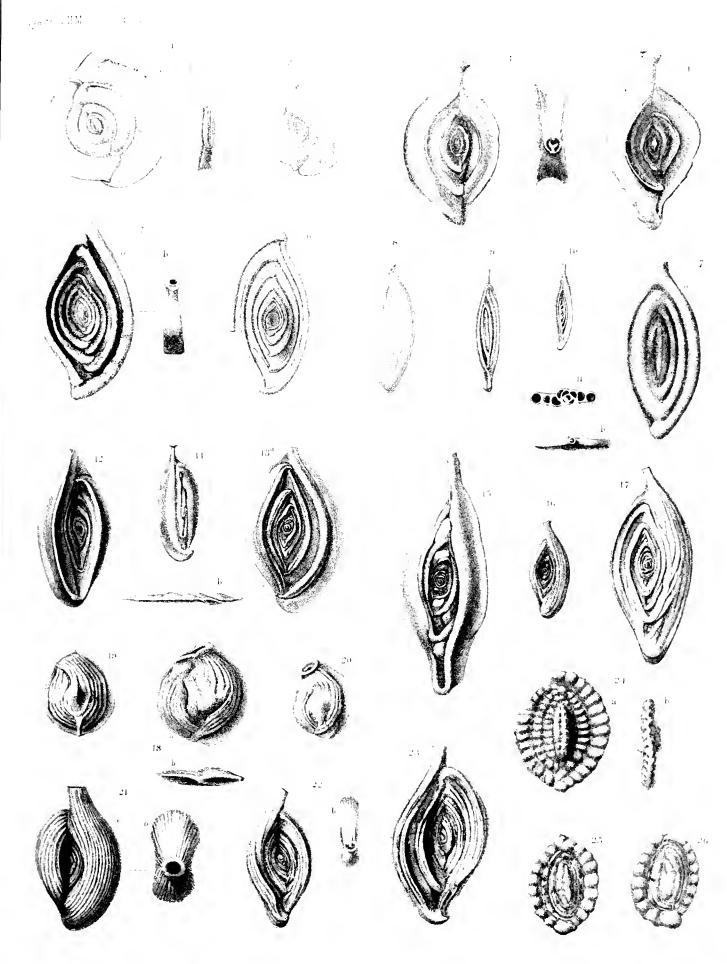


PLATE X.

PIROLOCULINA.

			Diam.	Page
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MILIOLA Diproleculation



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PLATE XI.

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34 16 Hay ming sind sata Proder		5.0	101
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CORNUSPIRA HAUERINA



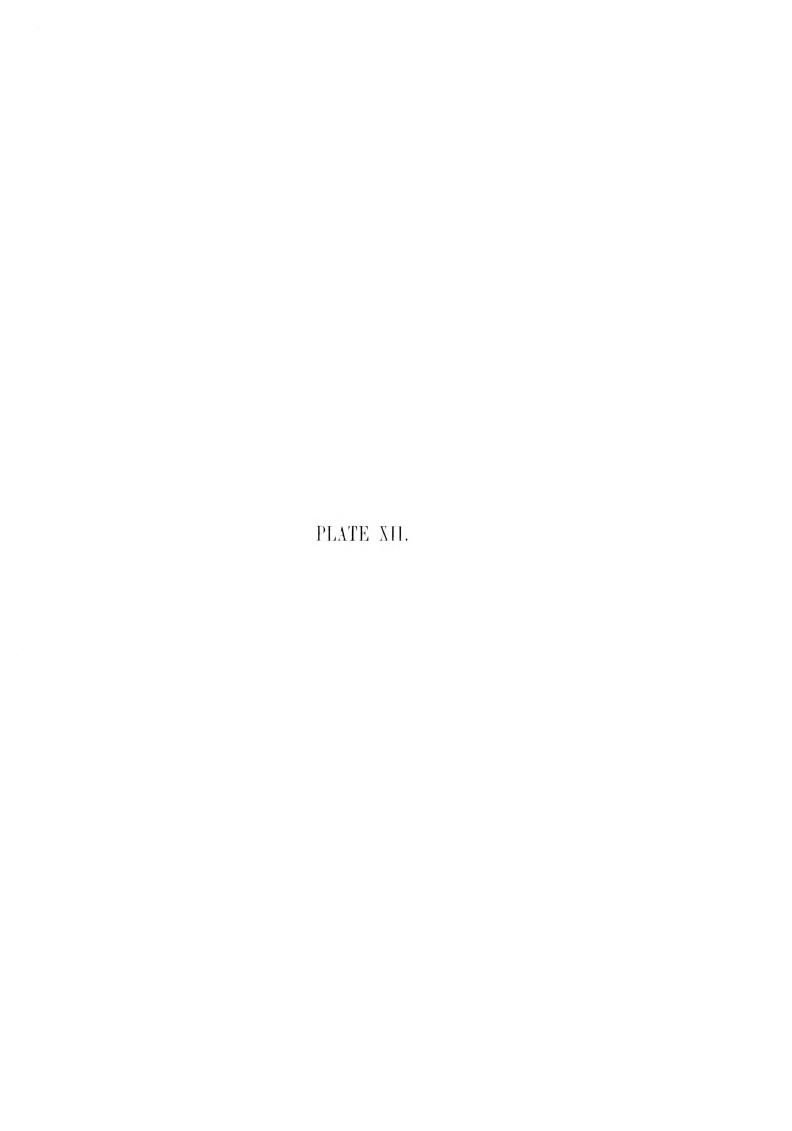


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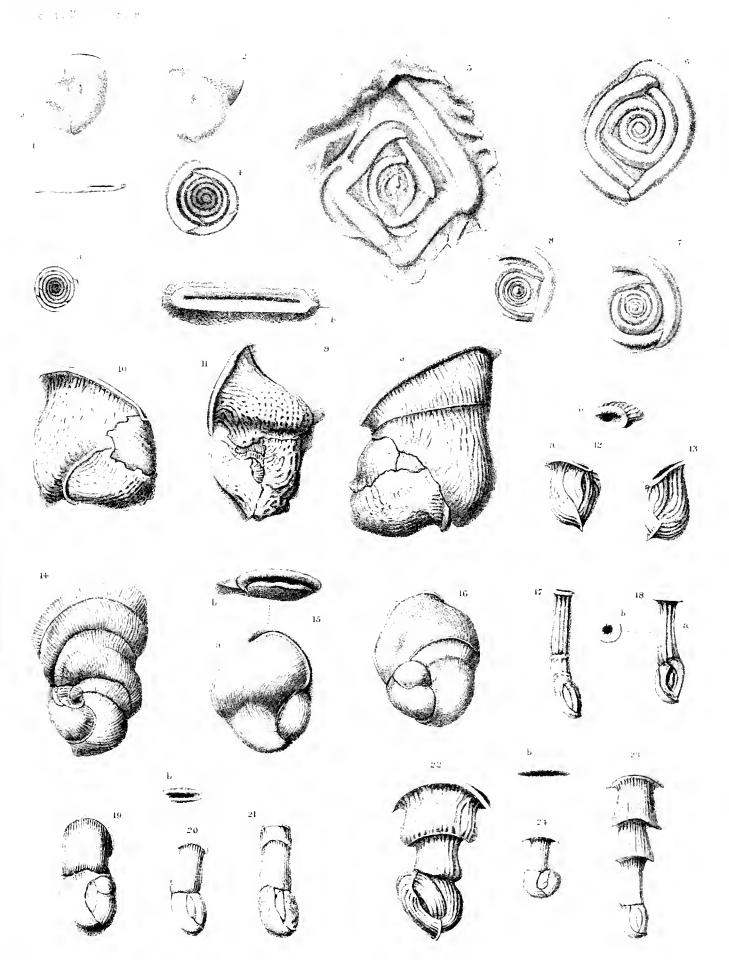




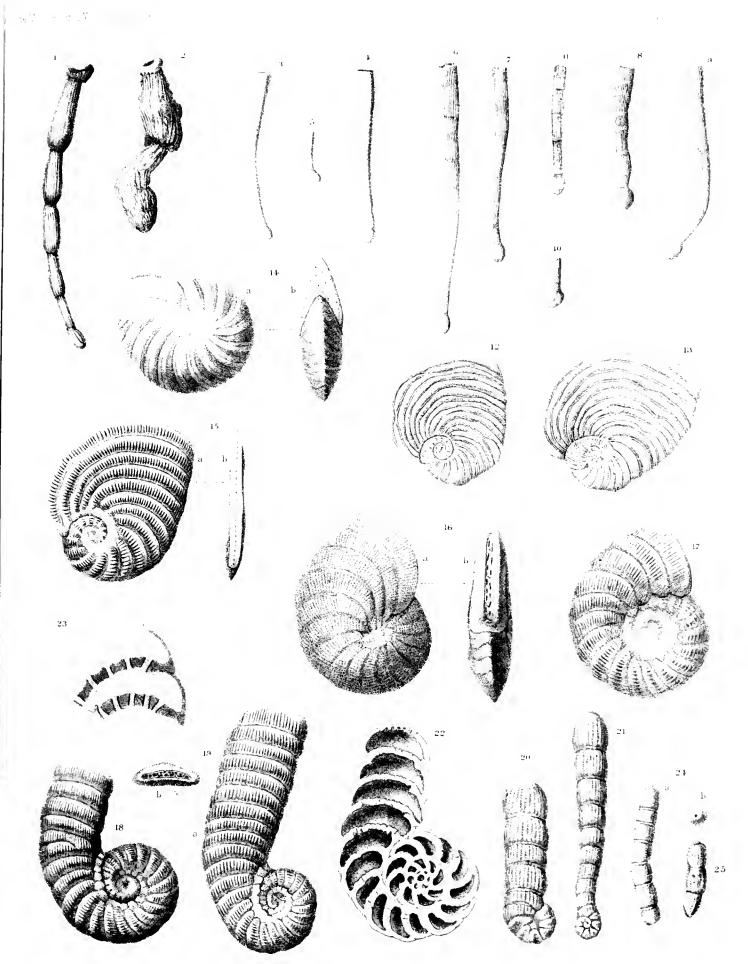
PLATE XIII.

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PLATE XIII.

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ARTICULINA _ PENEROPLIS.



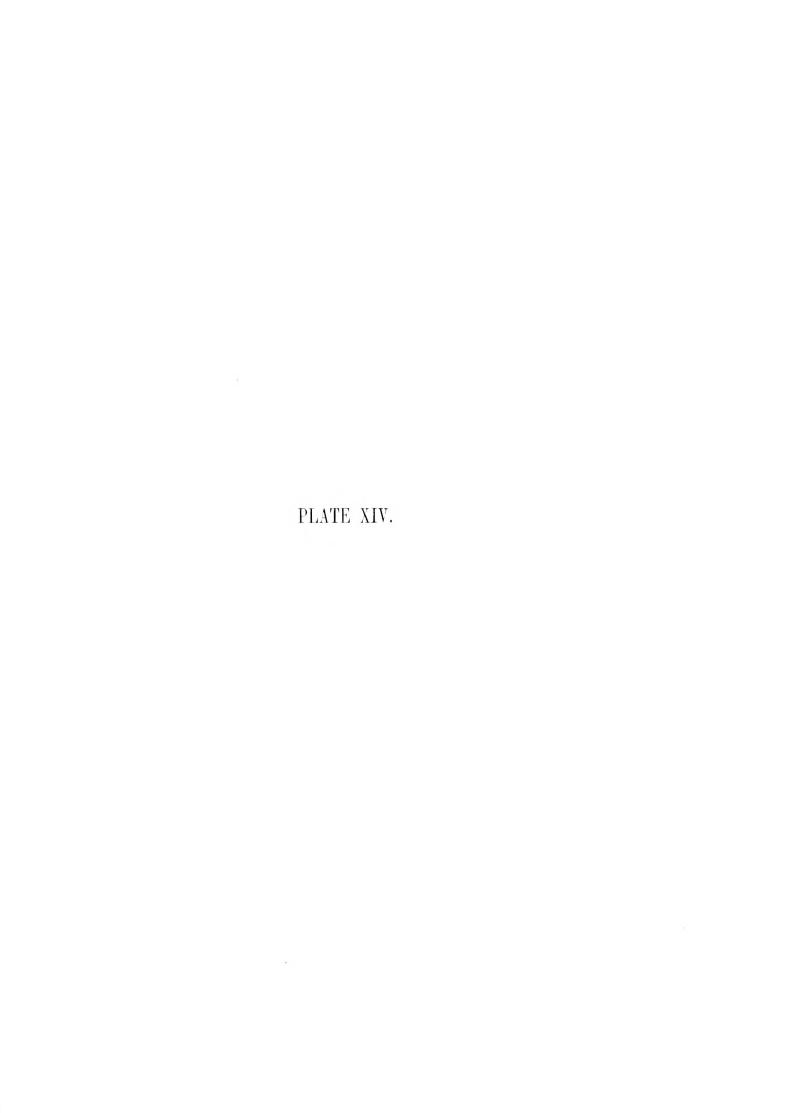
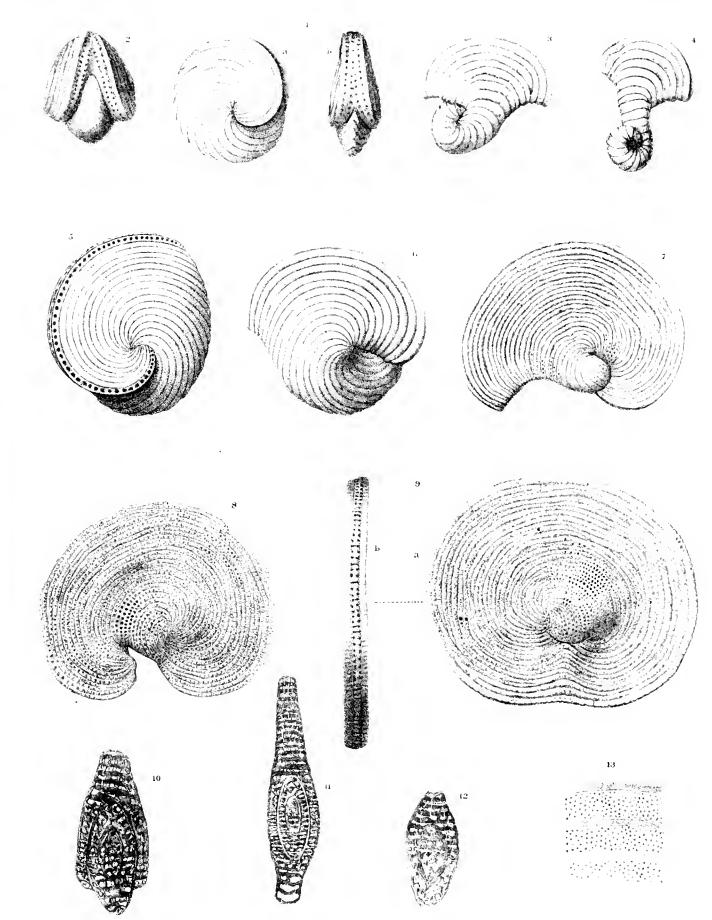


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ORBICULINA



PLATE XV.

PLATE XV.

Orbitolites.

		Diam.	\mathbf{Page}
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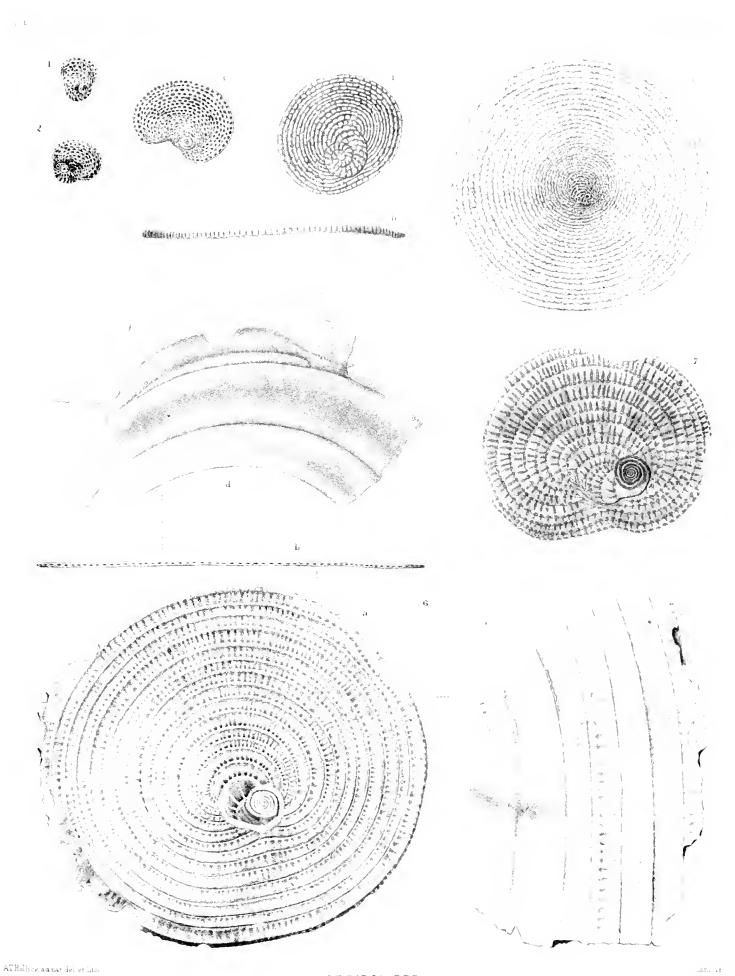




PLATE XVI.

PLATE XVI.

Orbitolites.

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	3	
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tioned.	\times 12	

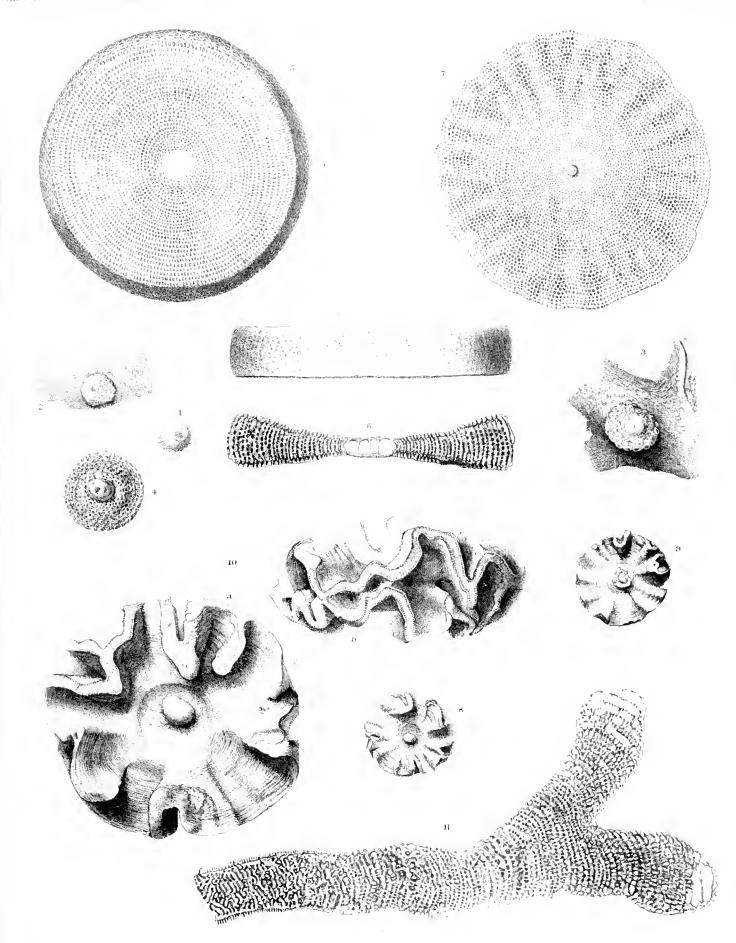


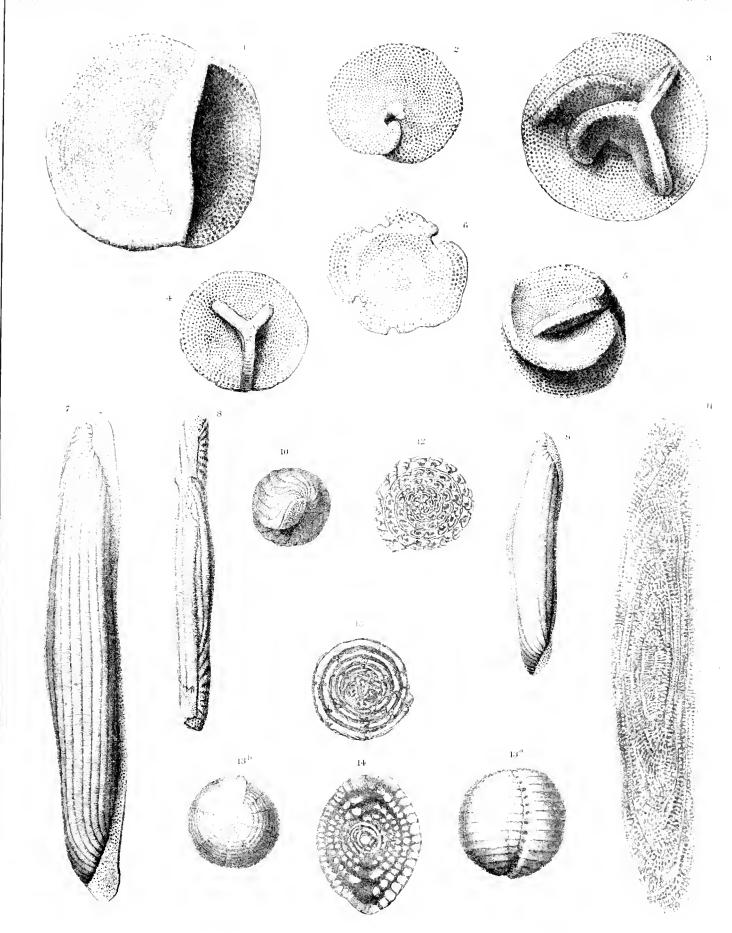


PLATE XVII.

PLATE XVII.

Orbitolites. —Alveolina.

		Diam.	$_{\mathrm{Page}}$
Figures 1-6.—Orbitolites complanata, Lamarek, sp.,	×	12	219
Monstrous specimens, showing the results of redundant and inequilateral growth.			
7–12.— <i>Alveolina boscii</i> , Defrance, sp.,			222
Figs. 7-9. Lateral aspect; fig. 10, terminal aspect	 ×	15	
Fig. 11. Longitudinal section of the shell, .	×	25	
Fig. 12. Transverse section of the shell,	×	25	
" 13–15.—Alveolina melo, Fichtel and Moll, sp.,	×	50	223
Fig. 13. a , Lateral aspect; b , terminal aspect.			
Fig. 14. Longitudinal section of the shell.			
Fig. 15. Transverse section of the shell.			



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PLATE XVIII

PLATE XVIII.

Psammosphera.—Sorosphæra.—Saccammina.

			Dium.	Page
Figures 1-8.—Psammosphæra fusca, Schulze				249
Fig. 1. Large specimen,		×	20	
Figs. 2, 3. Smaller examples.		×	40	
Fig. 4. Specimen built round a sponge-spicule,		×	40	
Fig. 5. Sessile specimen,		×	40	
Fig. 6. Test cut so as to show the interior,		×	40	
Fig. 7. Section of the wall, showing the				
together of the sand-grains, .		×	40	
Fig. 8. Specimens adherent to each other, .		×	40	
9, 10.—Sorosphæra confusa. Brady	•	×	15 15	$\frac{251}{253}$
 Figs. 11, 12. Lateral aspect; fig. 13, oral aspect. Fig. 14. Sessile specimen. Fig. 15. Test laid open to show the interior. Fig. 16. Polythalamous adherent specimen. Fig. 17. Fusiform specimen with two apertures a segment of the Carbon Succammina corteri. 	res, re-			
., 18, 19.—Saccammina socialis. n. sp.,	•	×	20	255

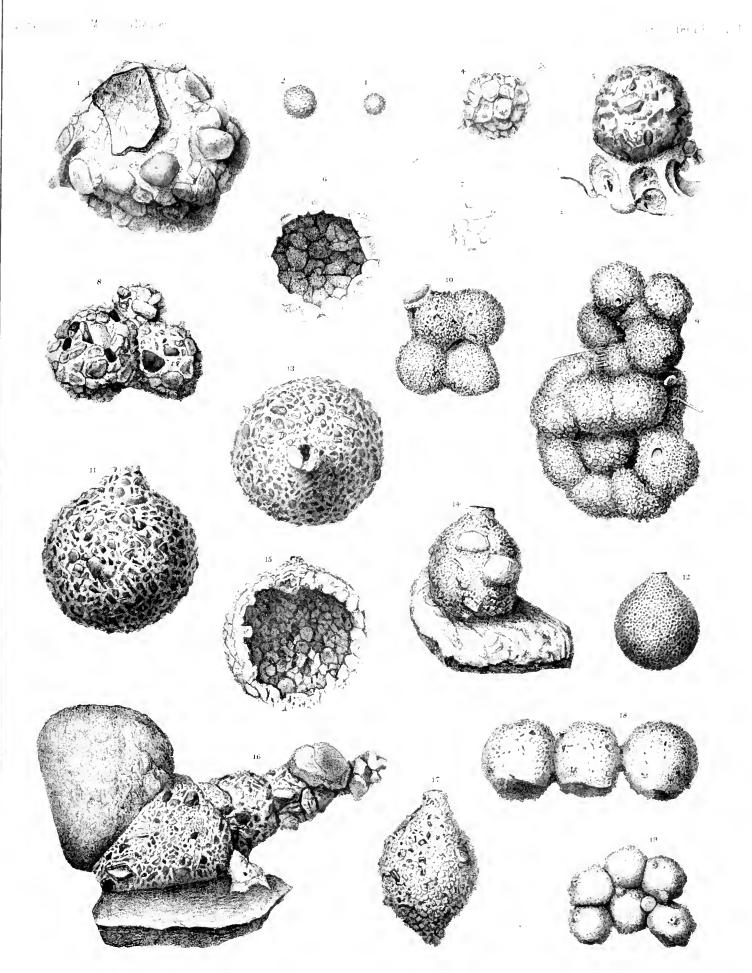




PLATE XIX.

PLATE XIX.

Astrorhiza.

	Diam.	Page
Figures 1 4.—Astrorhiza limicola, Sandald,		231
Figs. 1, 2. Lateral aspect,	× 8	
Fig. 3. Specimen laid open to show the interior,	× 8	
Fig. 4. Portion of the test more highly magnified, to		
show the structure,	× 100	
,. 5-10.—Astrorhiza arenaria. Norman,		232
Figs. 5-7. Specimens of different forms; lateral aspect,	× 8	
Figs. 8, 9. Specimens laid open to show the interior, .	× 8	
Fig. 10. Portion of the surface more highly magnified,		
to show the constituent sand-grains.	× 100	

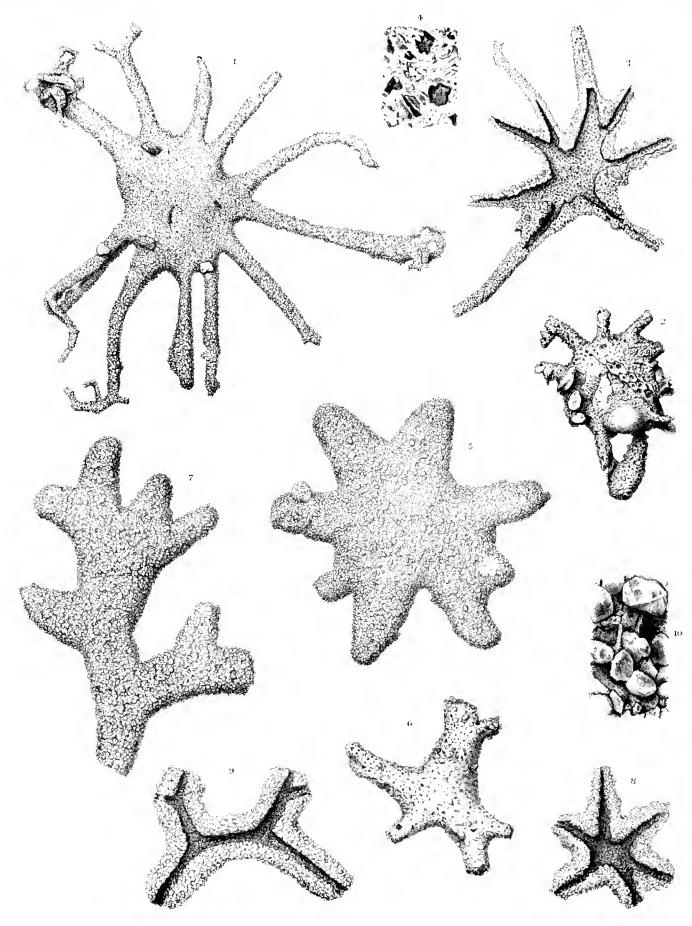


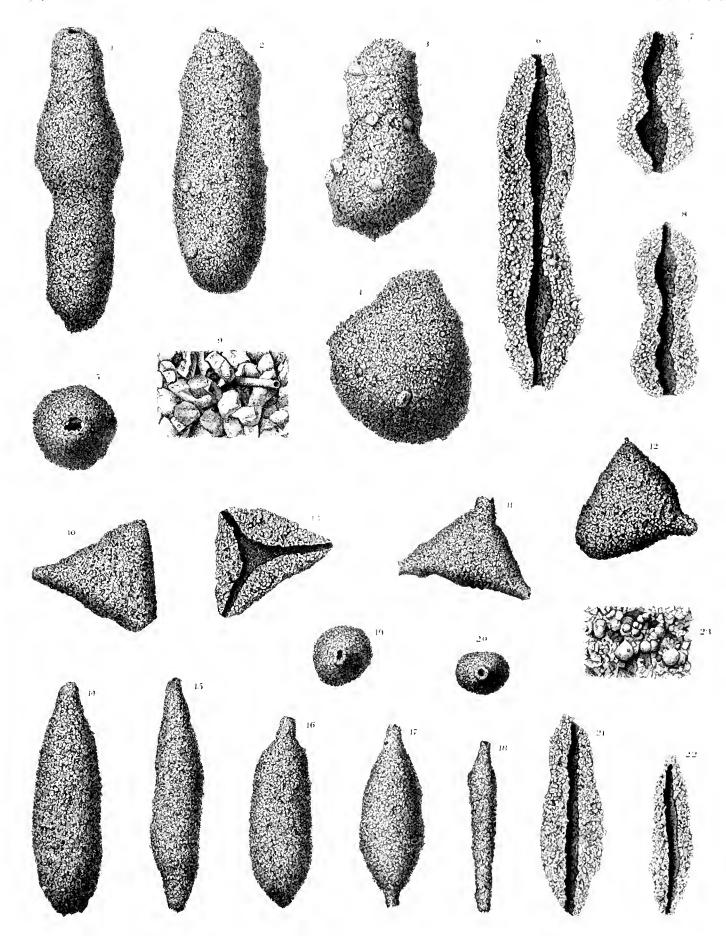


PLATE XX.

PLATE XX.

Astrorhiza.

		Diam.	Page
Figures 1-9.—Astrochiza crassatina, Brady,			233
Figs. 1-4. Lateral aspect; fig. 5, terminal aspect, showing one of the apertures,	×	8	
Figs. 6-8. Specimens laid open, showing the sub- segmented interior,	×	8	
Fig. 9. Portion of the surface more highly magnified, .	×	100	
10–13.—Astrorhiza angulosa, Brady.	×	8	234
Figs. 10-12. Lateral aspect. Fig. 13. Specimen laid open, to show the interior.			
14–23.—. <i>Astrorhiza granulosa</i> . Brady.			234
Figs. 14-18. Lateral aspect; figs. 19, 20, terminal aspect,	×	8	
Figs. 21, 22. Specimens laid open, showing the tubular		_	
cavities,	×	8	
Fig. 23. Portion of the surface more highly magnified,	×	100	



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PLATE XXL

PLATE XXI.

Rhabdammina.

	Diam.	Page
Figures 1-13.—Rhabdammina abyssorum, M. Sars,		266
Figs. 1-8. Specimens of various forms,	× [O	
Fig. 9. Fragment of a variety with branched arms (Rhabdammina irregularis, Carpenter!),	× 10	
Figs. 10, 11. Specimens laid open to show the	. 10	
interior, Figs. 12, 13. Surface more highly magnified to show	× 10	
the constituent sand-grams; fig. 12, specimen		
from the equatorial Pacific; fig. 13, from the	> 60	

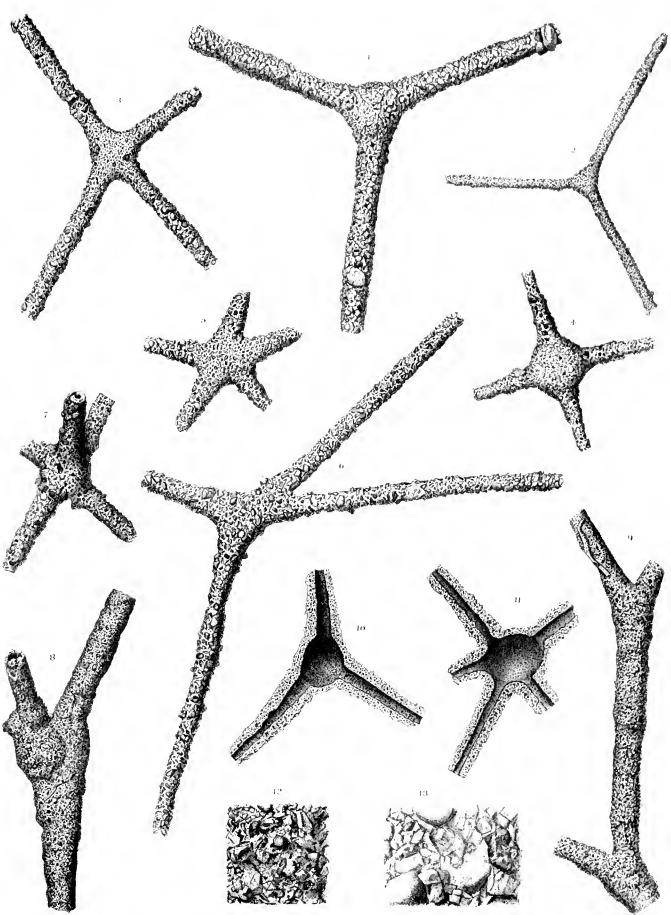






PLATE XXII.

PLATE XXII.

RHABDAMMINA—JACCLELLA.

Figures 1-6. = Rhabdammina linearis, Brady,		Diam.	Page 269
Figs. I-4. Specimens illustrating the range of form, Fig. 5. Test laid open to show the interior, Fig. 6. Portion of the surface more highly mag-	× .	10 10	
nified,	×	60	
7-10.—Rhabdammina discreta, Brady,			268
Figs. 7, 8 , \times 10 diam.; fig. 10, \cdot		8	
Fig. 9. Test laid open to show the interior,	×	10	
., 11–13.—Rhabdammina cornuta, Brady,		,	270
Figs. 41, 13, \times 15 diam.; fig. 12,	×	13	
" 14-18.—Jacolella aenta, Brady,	×	12	255
Figs. 14, 15. Lateral aspect; fig. 16, oral end. Figs. 17, 18. The test fractured transversely.			
19–22.—Jaculella obtusa. Brady	×	12	256
Figs. 19, 20. Adult specimens. Figs. 21, 22, Young or broken tests; the bulbons extremities armed with sponge spicules.			

RHABDAMMINALJACULELLA.

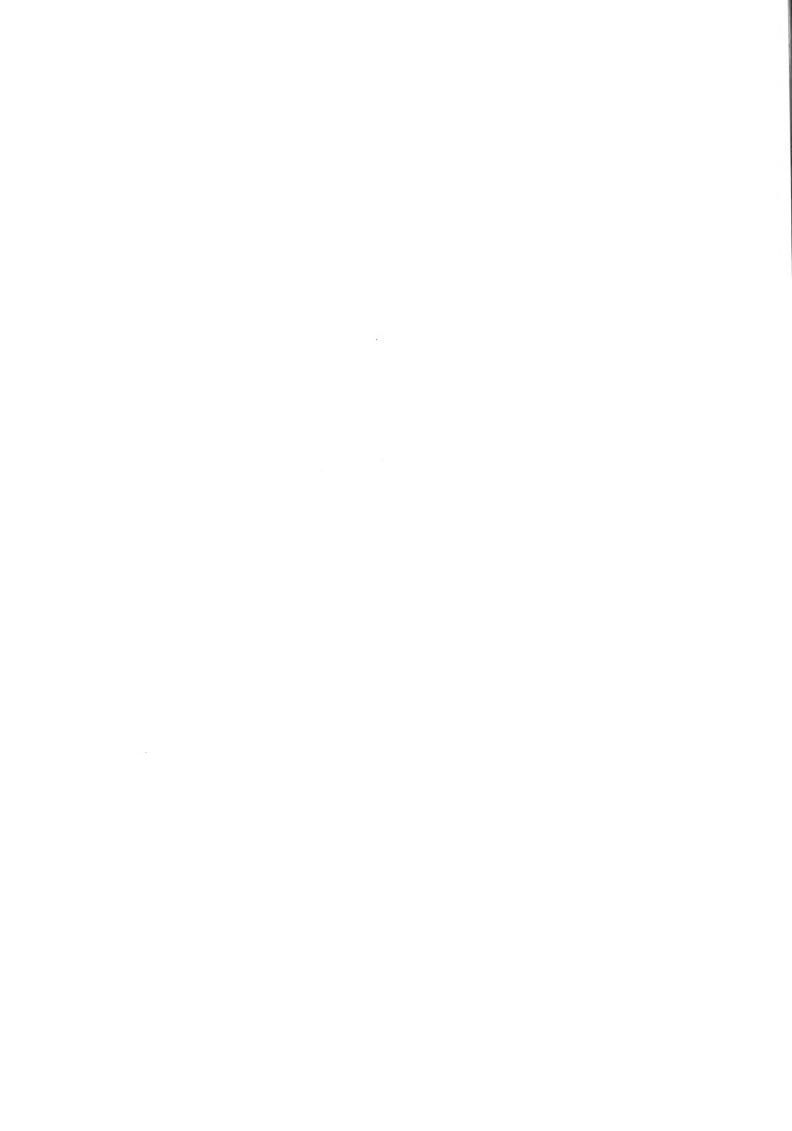
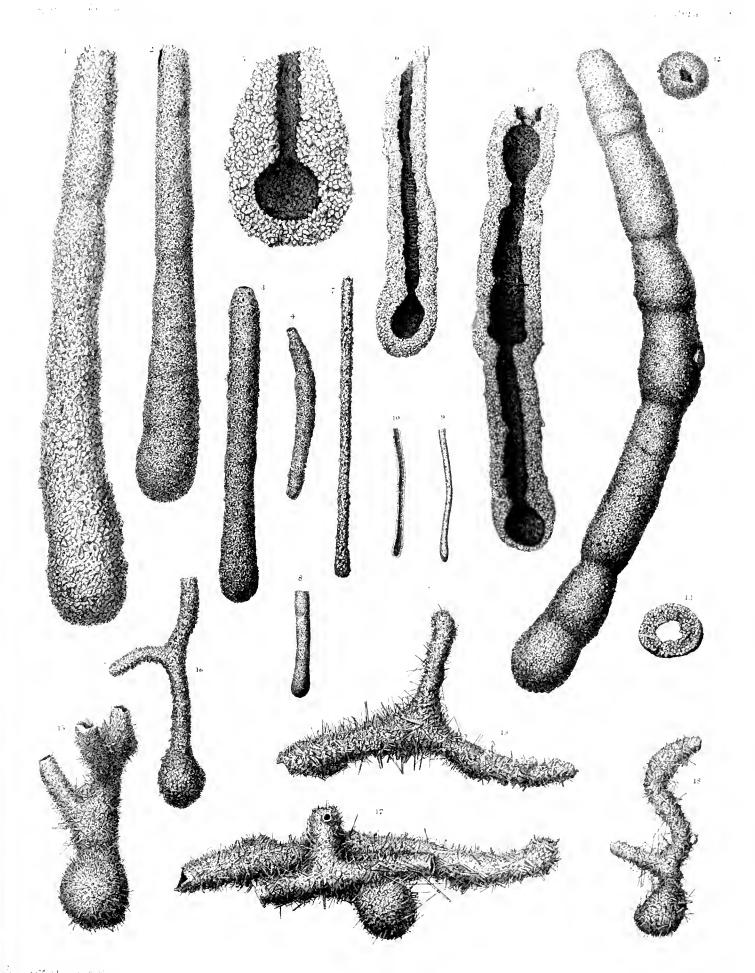


PLATE XXIII.

PLATE XXIII.

HYPERAMMINA.

		Diam.	Page
Figures 1-3, 5, 6.—Hyperammina friabilis, n. sp.,			258
Figs. 1, 2. Large specimens with the oral end imperfect; fig. 3, smaller specimen complete, Fig. 5. Portion of the aboral end laid open, showing the primordial chamber and the thickness and	×	10	
texture of the walls,		20	
Fig. 6. A similar specimen,	×	10	
., 4, 7-10.—Hyperammina elongata, Brady,	×	10	257
eavity.			
,. 11–14. –Hyperammina subnodosa, n. sp.,	×	10	259
Fig. 11. Lateral aspect; fig. 12, oral end.			
Fig. 13. Transverse section of the test.			
Fig. 14. Test laid open longitudinally.			
15 49 Hyperammina ramosa, Brady,	×	16	261





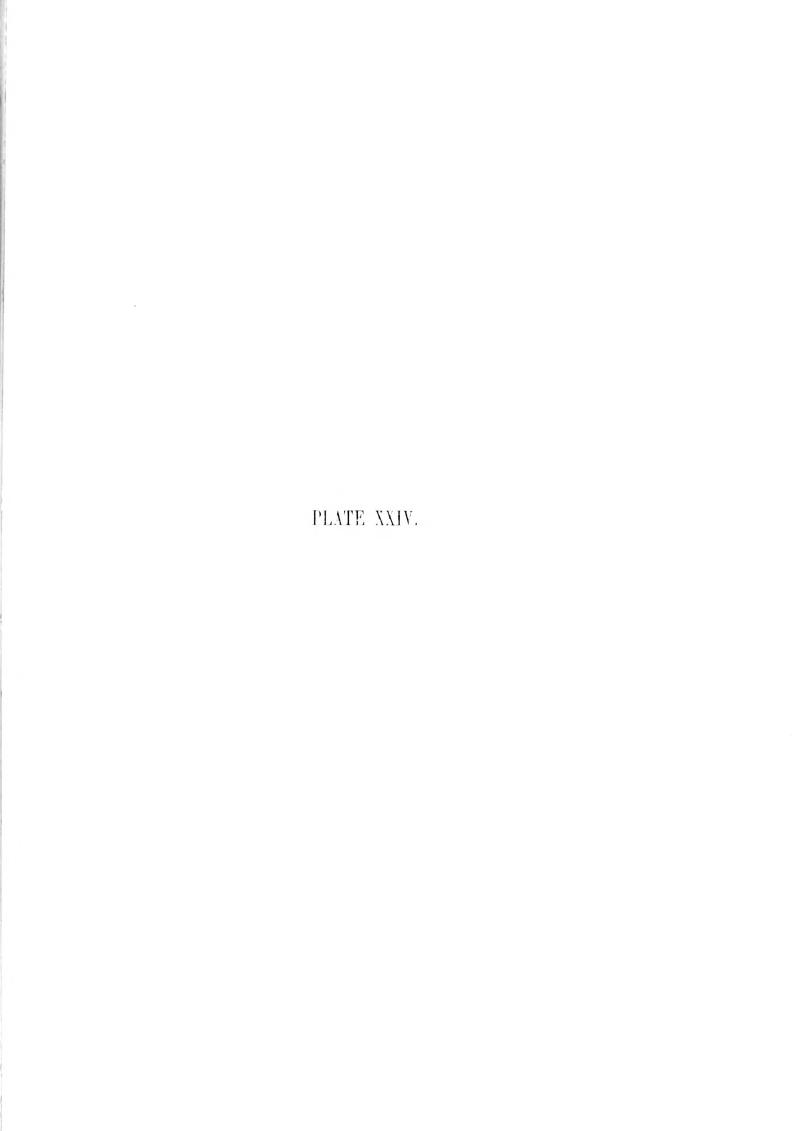
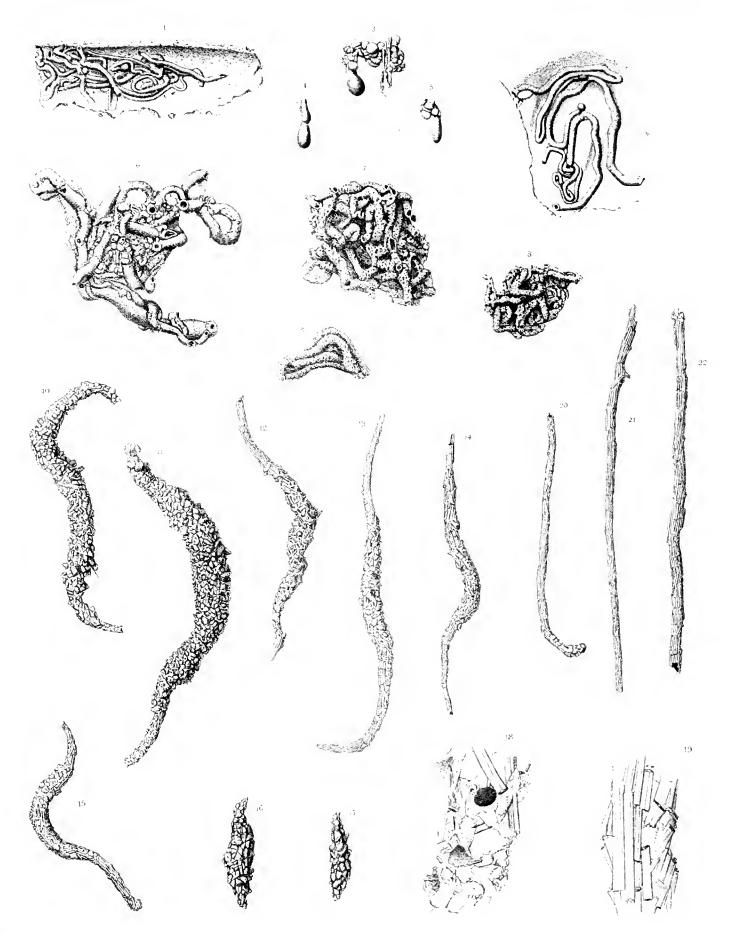


PLATE XXIV.

Hyperammina.—Marsipella.

		Diam.	Page
Figures 1-9.—Hyperammina rayans, Brady	×	15	260
Figs. 1, 2. Specimens adherent to fragments of shell.			
Figs. 3-5. Primordial chambers of specimens found in Globigerina ooze.			
Figs. 6-9. Masses formed of the tubes irregularly crowded together.			
10–19.—Marsipella elongata, Norman			264
Figs. 10-17. Specimens illustrating the range of form, and the variable proportion of sand and sponge-			
spicules employed in building the test,	ж	15	
Figs. 18, 19. Portions of the surface more highly magnified,	×	60	
., 20-22.—Marsipella cylindrica, Brady,	×	15	265



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HYPERAMMINA MARSIPELLA

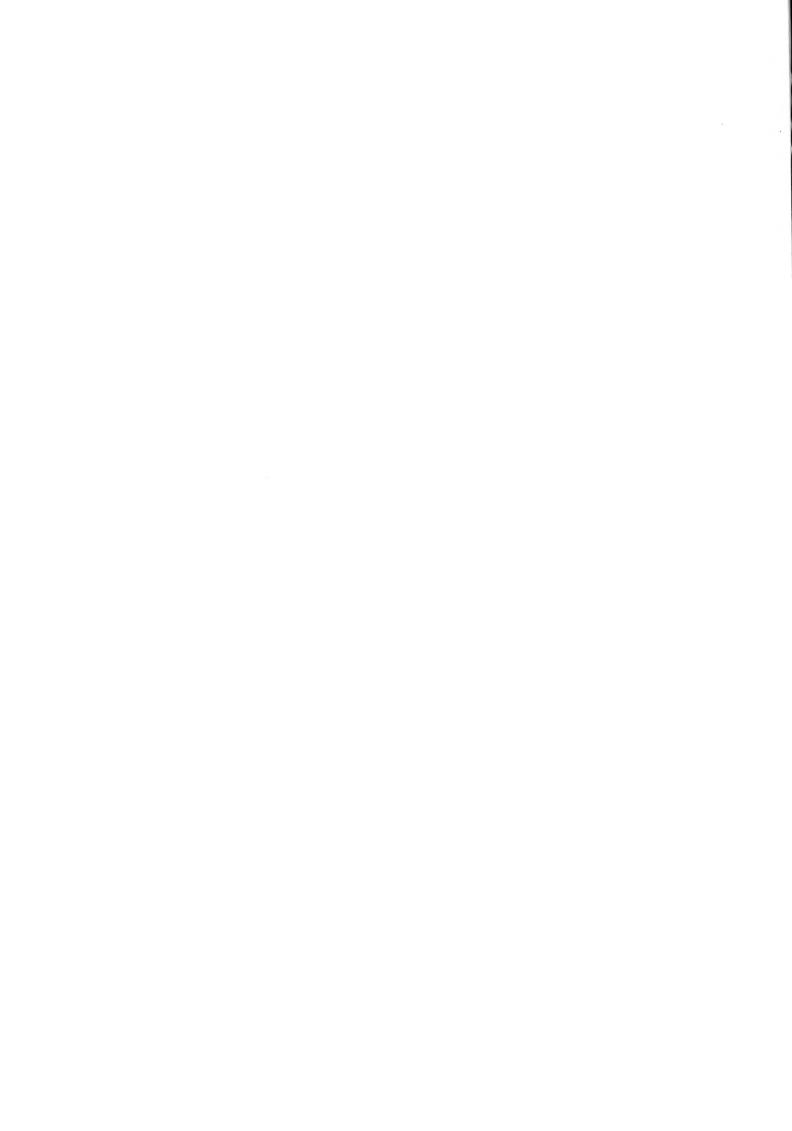
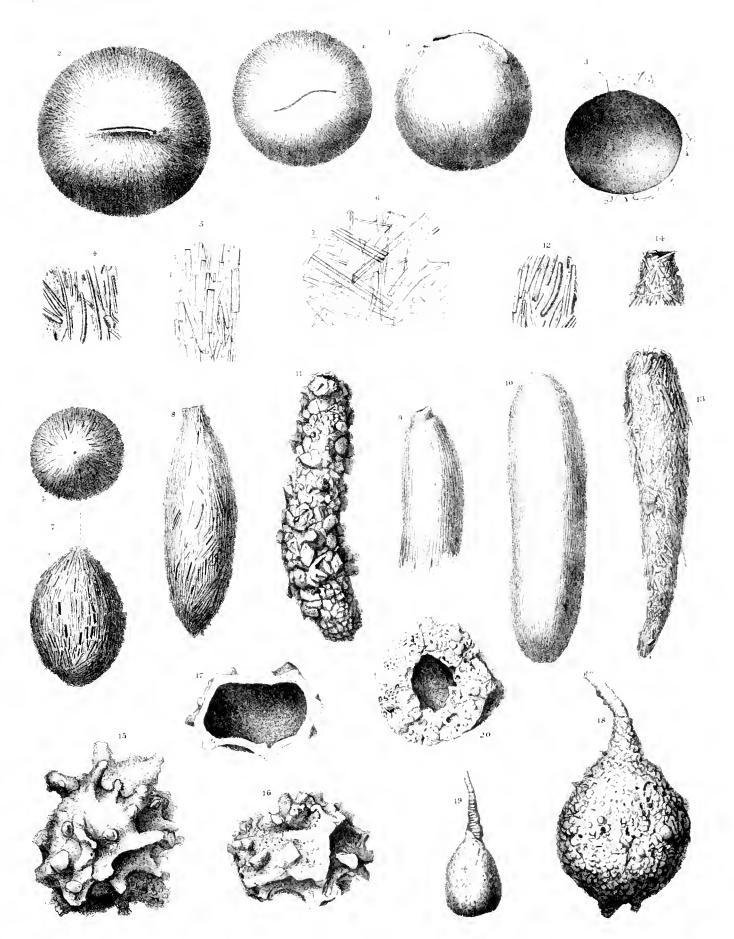


PLATE XXV.

PLATE XXV.

Pilulina.—Technitella.—Storthosph.era.—Pelosina.

				Diam.
res 1-6.— $Piluline$	<i>a jeffreysii</i> . Carpenter,			
	ig. 1. a , Lateral aspect; figs. 1 b , 2, oral aspect, ig. 3. Test laid open to show the thickness of	the	×	1:2
	walls, and the smoothly finished internal ca		×	12
F	ig. 4. A portion of the external surface, .		×	100
	ig. 5. Transverse section of the test,		×	100
F	ig. 6. Longitudinal section of the test		¥	100
7.—Technit	ella melo, Norman		×	50
a.	, Lateral aspect : b_i oral aspect.			
8 12.—Technit	ella legumen, Norman,			•
	ig. 8. Lateral aspect, small specimen,		×	50
	ig 9. Broken specimen, with collar-like aperture.		×	40
	ig. 10. Lateral aspect,		X	30
	ig. 11. Specimen with an incrustation of sand	D1'0-		
	tecting the spicular test,		×	25
ŀ	ig. 12. Surface of the spicular test more highly n	iag-		
	nified,		×	100
13, 14.— Technit	ella raphanus, n. sp.,		×	25
	Fig. 13. Large specimen somewhat imperfect at oral end.	the		
H	Fig. 14. Oral end of a smaller test.			
15-17Stortho	sphæra albida, Schulze,		×	20
ŀ	Figs. 15, 16. General aspect of the test.			
1	Fig. 17. Specimen laid open to show the thicknes the wall, and the internal cavity.	s of		
18-20.—Pelosin	a rotundata, Brady,		×	20
	Figs. 18, 19. General aspect of the test.			
	Fig. 20. Specimen laid open transversely to show	the		
,	thickness of the wall, and the comparation			
	small internal cavity.			



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PLATE XXVI.

PLATE XXVI.

Pelosina.—Hippocrepina.—Bathysiphon.

]	Diam.	Page
Figures 1-6.—Pelosina cylindrica, n. sp.,	×	9	236
Figs. I=3. Lateral aspect; fig. 4. oral end; fig. 5, aboral end.			
Fig. 6. Specimen laid open to show the thickness of the walls and the smooth interior.			
" 7-9.—Pelosina variabilis. Brady, .	×	9	235
Figs. 7, 8. General aspect of the test. Fig. 9. Portion of a test laid open to show the thickness of the walls.			
., 10–14.—Hippocrepina indivisa. Parker	×	45	325
Figs. 10, 11. Lateral aspect; figs. 12, 13, oral end. Fig. 14. Test laid open longitudinally, showing the undivided cavity.			
,, 15-20.—Bathysiphon filiformis, M. Sars.			248
 Figs. 15, 16. General aspect of the test, Fig. 17. Portion of a specimen laid open longitudinally, to show the structure of the walls and the 	*	;)	
nature of the internal cavity, Fig. 18. Transverse section of the test, viewed by	×	60	
transmitted light, Fig. 19. Longitudinal section of the wall, with a mass	×	60	
of adherent dark-coloured sarcode,	×	60	
Fig. 20. Longitudinal section, more highly magnified		200	

PELOSINA_HIPPOCREPINA_BATHYSIPHON

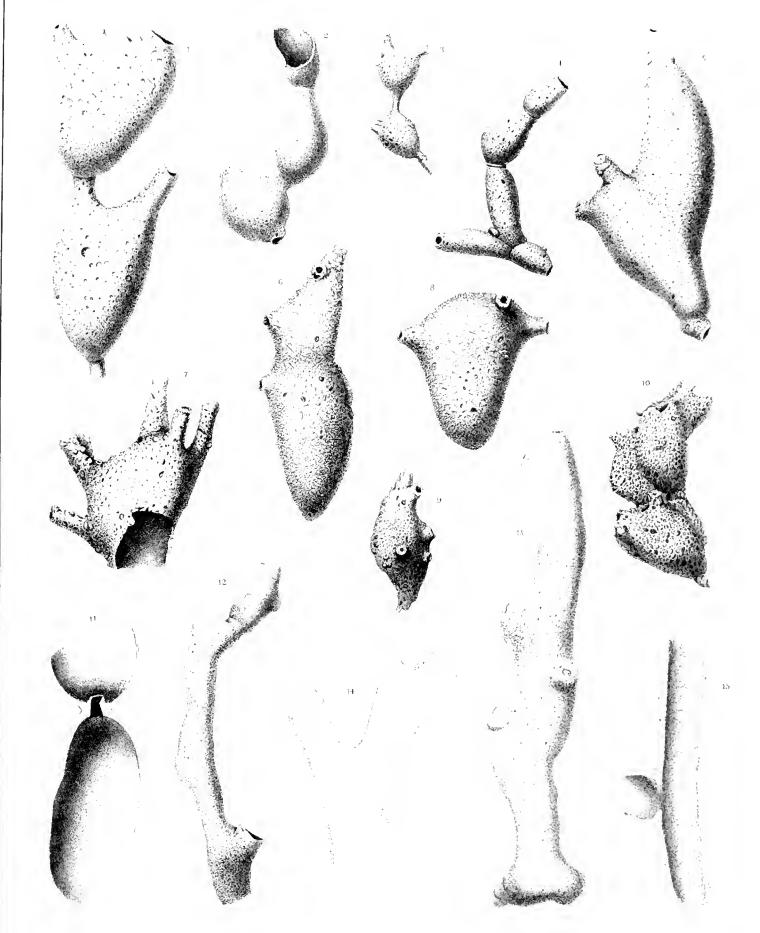


PLATE XXVII.

PLATE XXVII.

ASCHEMONELLA.

		Diam.	Page
Figures 1-11.— Aschemonella catenata, Norman, sp.,			271
Figs. 1-10. Various specimens, more or less broken,	×	15	
Fig. 11. Test laid open, showing the tenuity of the walls, and the smooth interior,	×	10	
" 12-15.—Aschemonella ramuliformis, n. sp.,	×	15	273
Fig. 14. Transparent section of a portion of a specimen.			
Fig. 15. Test laid open to show the interior.			



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ASCHEMONELLA



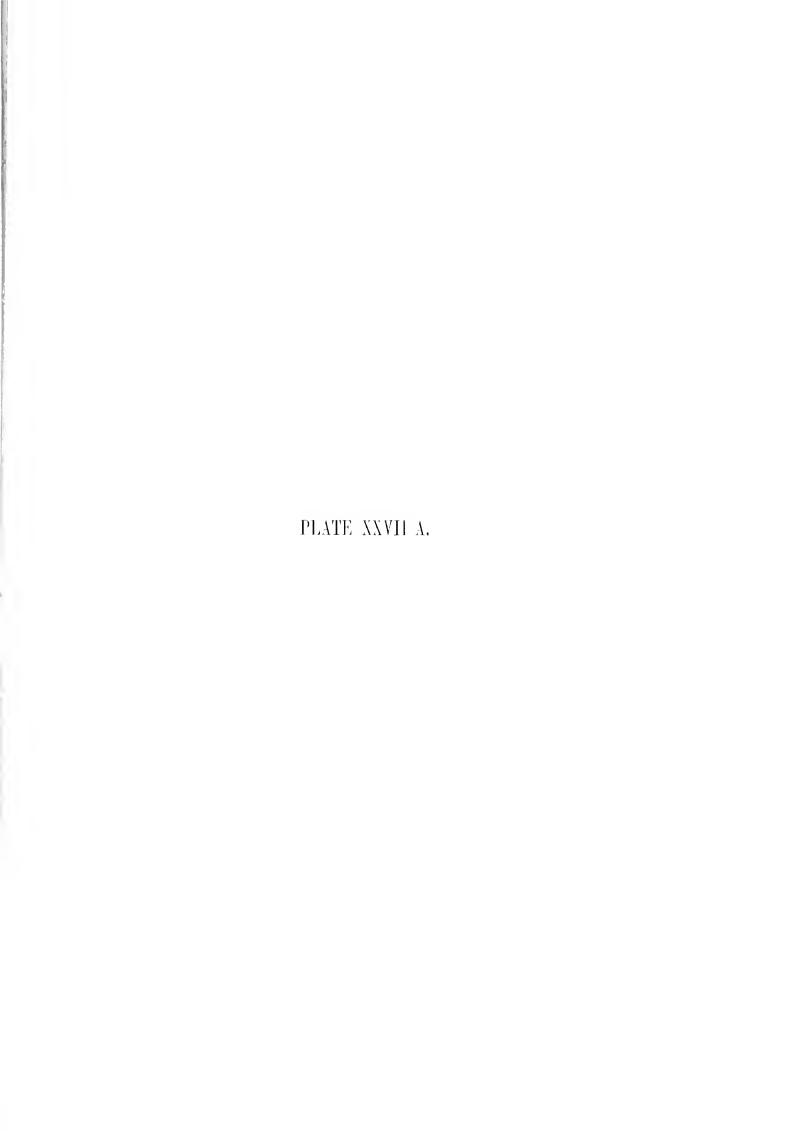
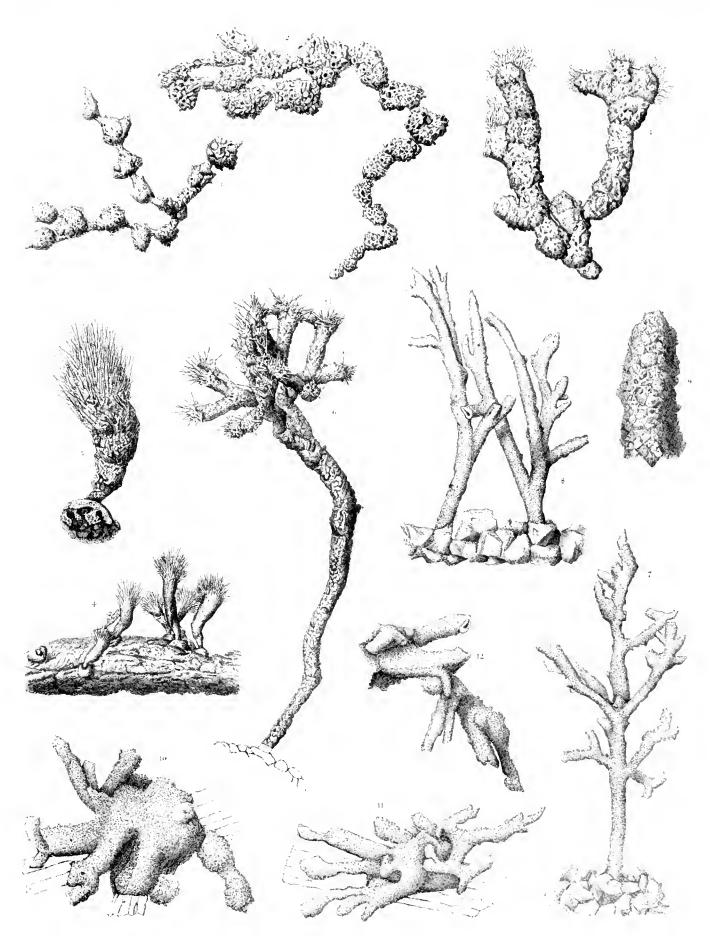


PLATE XXVII. A.

ASCHEMONELLA.—HALIPHYSEMA.—DENDROPHRYA.

ASCHEMONELLA, ITALIFHI SEMA DENDROFHRI I	١.		
		Diam.	Page
Figures 1-3.—Aschemonella catenata, Norman, sp			271
Fig. 1,	×	20	
Fig. 2,	×	12	
Fig. 3. Specimen incrusted with mud and with filose			
pseudopodia (?) extended, preserved in alcohol,	×	20	
,. 4, 5.—Haliphysema tumanowiczii, Bowerbank			281
Fig. 4. Group of specimens in situ,	×	20	
Fig. 5. Single specimen, showing the pseudo-poly-			
thalamous foot,	×	50	
,, 6.—Haliphysema ramulosum, Bowerbank,	×	20	283
7-9.—Dendrophrya erecta, Strethill Wright,			239
Fig. 7. \times 25 diam. fig. 8,	×	30	
Fig. 9. Apertural termination of one of the branches, .	×	150	
10–12.—Dendrophrya radiata, Strethill Wright			238
	×	45	
Figs. 10, 12. \times 40 diam.; fig. 11,	^	311	

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ASCHEMONELLA HALIFHYSEMAL SENDROPHRA



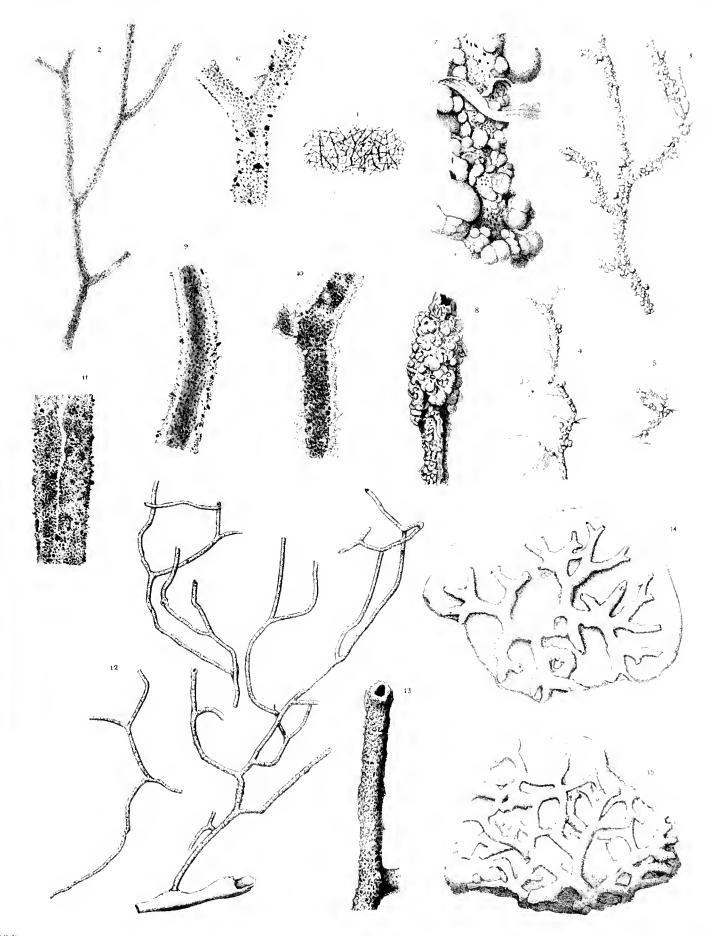
PLATE XXVIII.

PLATE XXVIII.

Rhizammina.—Hyperammina.—Sagenella.

	Diam.	Page
Figures 1–11.—Rhizammina algaformis, Brady,		274
Figs. 1, 2, 6. Specimens from sandy bottom; figs. 3, 4, 5, 7, 8, from Globigerina coze.		
Fig. t. Portion of a tuft,	Natural size.	
Figs. 2, 3, 4, 5. Incomplete specimens,	× 8	
Figs. 6, 7. Fragments more highly magnified,	× 40	
Fig. 8. Fragment with part of the arenaceous coating removed, showing the chitinous envelope underneath,	× 15	
Fig. 9. Specimen from sandy bottom, after treatment with hydrochloric acid; mounted in Canada		
balsam,	× 40	
Fig. 10. Specimen from Globigerina ooze, similarly treated,	× 40	
Fig. 11. Specimen from sandy bottom, after treatment with solution of caustic potash; mounted in Canada balsam,	× 40	
,, 12, 13.— $Hyperammina\ arborescens$, Norman, sp		262
Fig. 12. Specimen growing upon a Polyzoon.	≈ 20	
Fig. 13. Terminal branch with aperture,	× 100	
" 14, 15.—Sagenella frondescens, Brady,	× 10	278
Specimens growing on fragments of Nullipore.		

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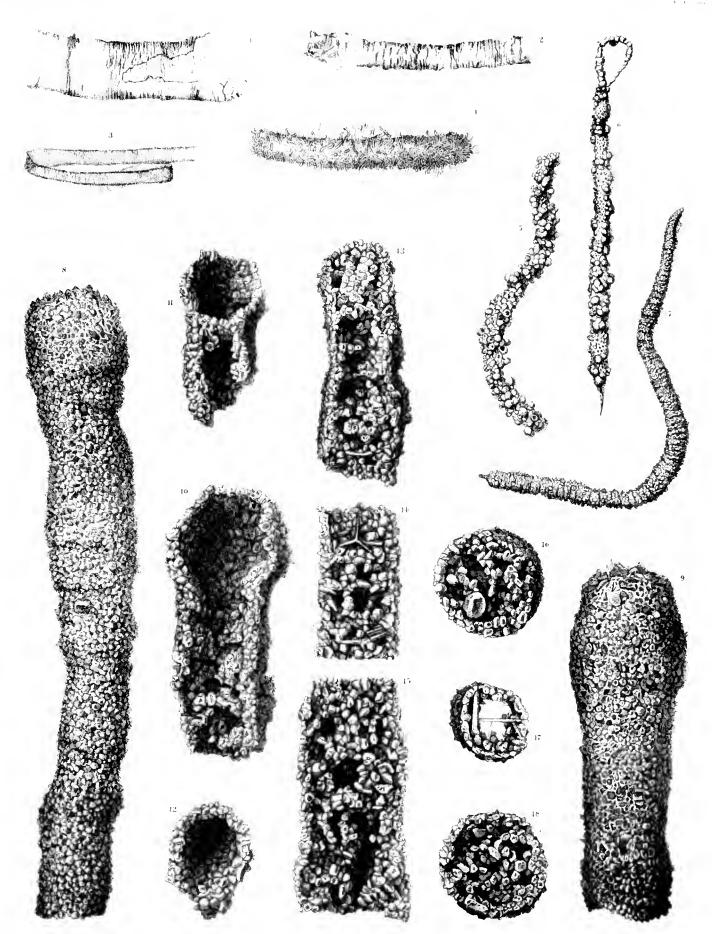
PLATE XXIX.

PLATE XXIX.

RHIZAMMINA.—BOTELLINA.

	Diam.	Page
×	20	277
×	30	278
×	12	277
×	10	279
	×	× 20 × 30 × 12

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PLATE XXX.

PLATE XXX.

REOPHAX.

			Diam.	Page
Figures 1-5.—Reophax difflugiformis, Brady, Figs. 1, 2, 3 a , 4, 5. Lateral aspect; 3 b , or		. ×	50	289
,, 6.— $Reopha.v$ $ampullacea$, $Brady$, . a , Lateral aspect; b , peripheral aspect.		. ×	50	290
., 7 –11.— $Reophex\ fusiformis$, Williamson, sp		. ×	60	290
12-17.— Reophux scorpiurus, Montfort.	•			291
Fig. 12 a , 13. Lateral aspect: 12 b , oral asp	ect,	. ×	30	
Fig. 14. \times 50 diam.; fig. 15, \times 40; fig. 16, Fig. 17. Longitudinal section of a coarsely			20	
test,		. ×	30	
" 18–20.— <i>Reophax pilulifera</i> , n. sp				292
Figs. 18–20. Lateral aspect, . Fig. 19. Large terminal chamber with the			25	
tially occupied by a smaller one.			10	
. 21. 22. – Reophax dentaliniformis, Brady				293
Fig. 21. \times 35 diam.; fig. 22, \cdot		. ×	40	
23, 24.—Reophus bacillaris, Brady,				293
Fig. 23. \times 20 diam.; fig.24.		. ×	17	

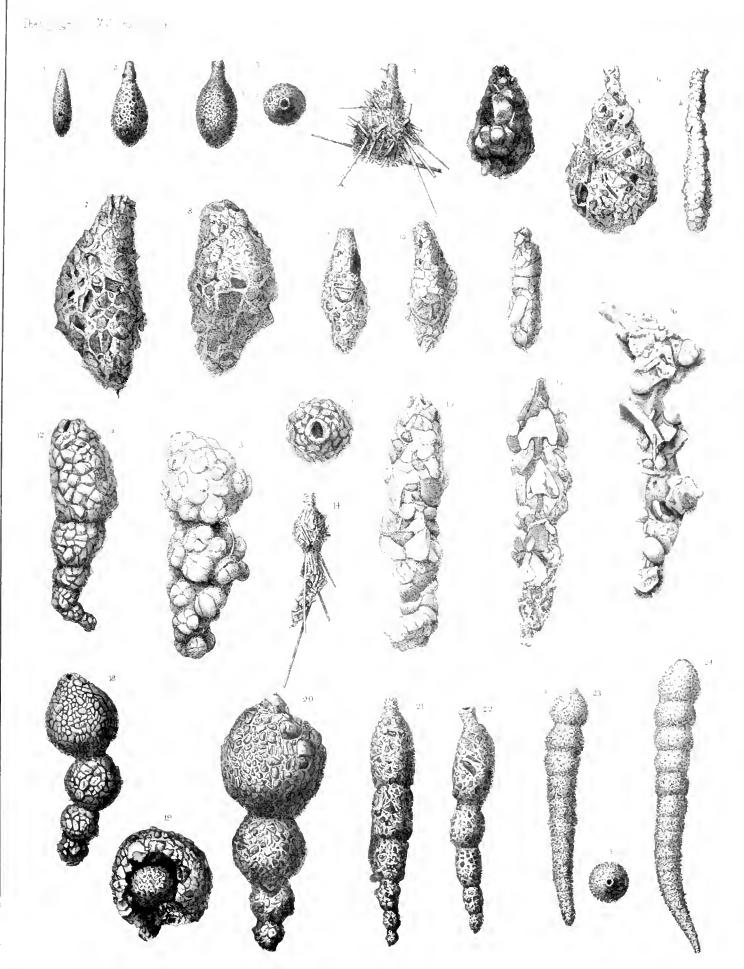


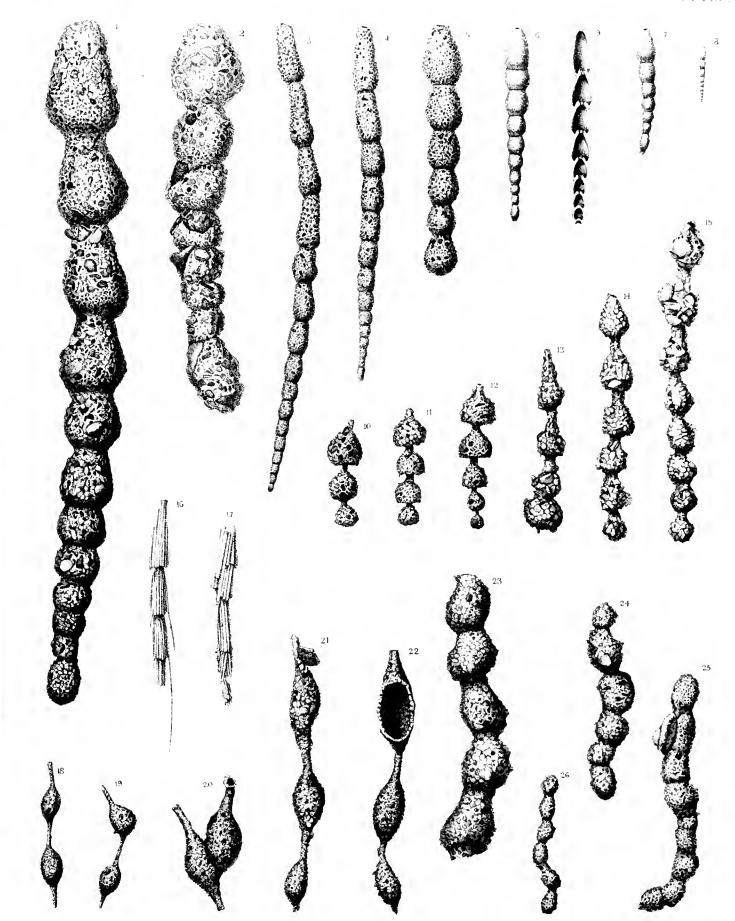


PLATE XXXI.

PLATE XXXI.

REOPHAX.

					Diam.	Page
Figures 1-9.—Reophax nodulosa, Brady,						294
Fig. 1. Large specimen,				×	7	
Fig. 2. Somewhat smaller s	pecimen, afte	r having	been			
completely decale	ified with hy	drochlori	c acid,	\times	7	
Figs. 3-8. Specimens of var	rious forms a	ud dimen	sions,	×	10	
Fig. 9. Test laid open lo	ngitudinally	to shov	v the			
interior,				\times	10	
,, 10-15.—Reophax guttifera, Brady.				×	50	295
Specimens in various stages	of growth.					
1						
" 16, 17.—Reophax spiculifera, Brady.				×	50	295
10. 17.—16 opning squeaty of	•	•	•		•	
					. ~	296
18-22.—Reophax distans, Brady		•	٠	×	15	290
~ 23 -26.— $Reophax\ adunca,\ Brady,$	•			X	30	296



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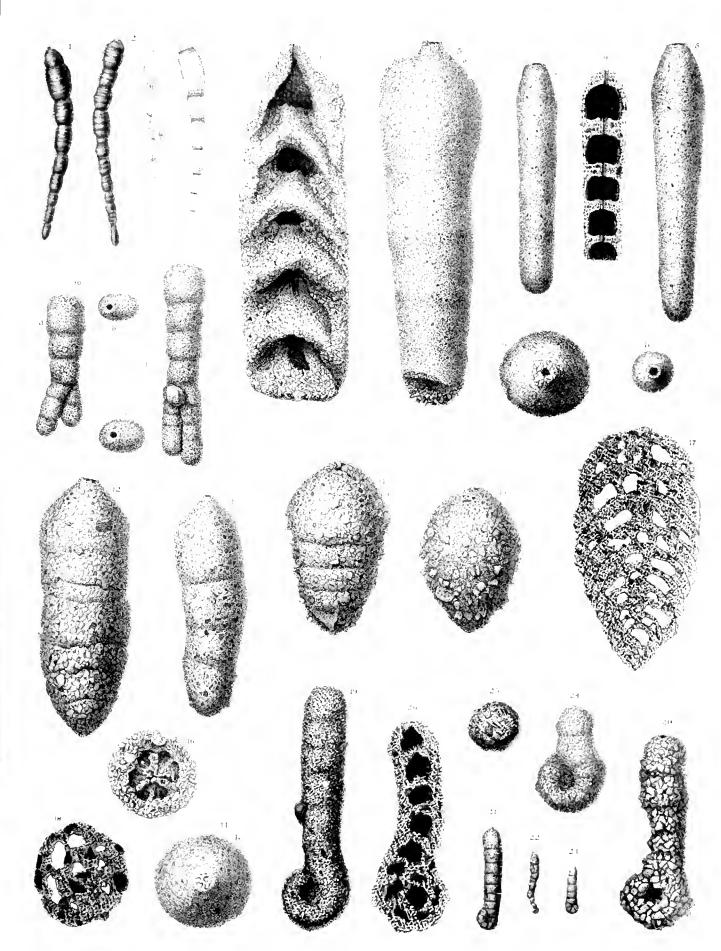
PLATE XXXII.

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PLATE XXXII.

REOPHAX.—Haplostiche.—Haplophragmium.

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		Diam.	Page
Figures 1 4.—Reophax membranacea, Brady,	×	50	297
Figs. I, 2. Specimens mounted dry.			
Fig. 4. Specimen mounted in Canada balsam and			
viewed by transmitted light.			
Fig. 3. Specimen decalcified by hydrochloric acid, and mounted in Canada balsam.			
,, 5. 6.—Reophax sabulosa, Brady,	×	9	298
Fig. 5. α , Lateral aspect; b , oral aspect.			
Fig. 6. Specimen laid open longitudinally, to show the interior.			
7-9.—Reophax cylindrica, n. sp.,	×	20	299
Figs. 7 a , 8. Lateral aspect; b , oral aspect.			
Fig. 9. Specimen laid open longitudinally, to show the			
the interior.			
" 10. 11.—Reophax findens, Parker.	×	40	299
a, a, Lateral aspect; b, b , oral aspect.		40	2.7.0
., 12-18.—Haplostiche soldanii, Jones and Parker, sp.,			318
Fig. 12. Lateral aspect,	×	12	
Figs. 13, 14 a , 15. Lateral aspect; fig. 14 b , oral aspect,	×	15	
Fig. 16. Transverse fracture, showing the labyrinthic			
interior,	×	15	
Fig. 17. Longitudinal section of the test,	×	15	
Fig. 18. Transverse section,	×	15	
19-26.—Haplophragmium agglutinans, d'Orbigny, sp.,			301
Fig. 19. Lateral aspect, \times 25; figs. 20, 24, do.,	×	40	
Figs. 21–23. Lateral aspect,	×	50	
Fig. 25. Oral aspect,	×	40	
Fig. 26. Specimen laid open longitudinally, to show			
the interior,	×	40	



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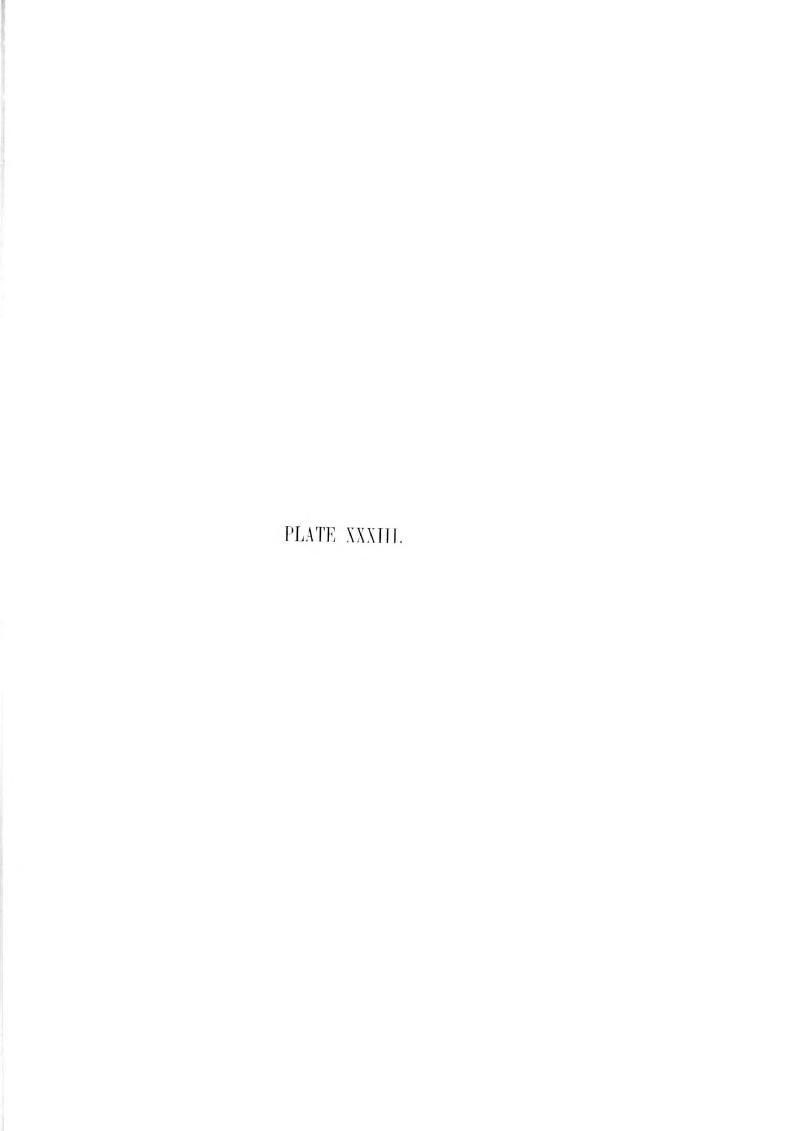
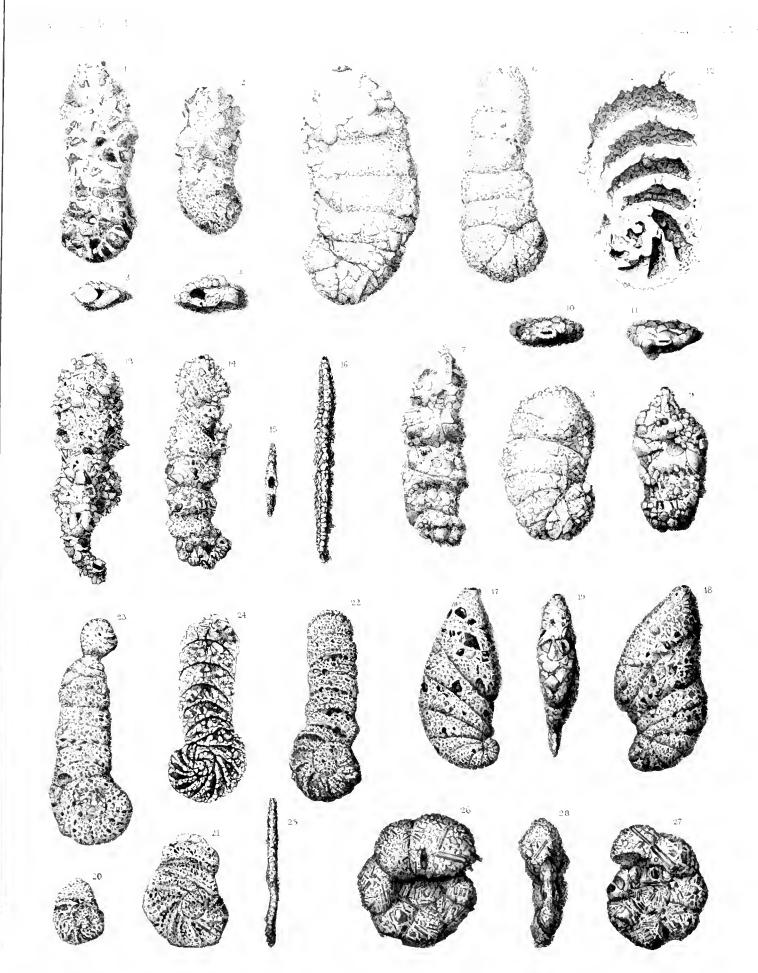


PLATE XXXIII.

HAPLOPHRAGMIUM.

Figures 1-4.—Haplophragmium pseudospirale, Williamson, sp., . Figs. 1, 2. Lateral aspect; figs. 3, 4, oral aspect.	×	Diam. 35	Page 302
., 5-12.—Haplophragmium calcareum, n. sp., Figs. 5-9. Lateral aspect; figs. 10, 11, oral aspect. Fig. 12. Horizontal section of the test.	×	18	302
13-16.—Haplophragmium tenuimargo, Brady, Figs. 13, 14. Lateral aspect; fig. 15, oral aspect; fig. 16, peripheral aspect.	×	25	303
,, 17-19.—Haplophragmium cassis, Parker, sp., Figs. 17, 18. Lateral aspect; fig. 19, peripheral aspect.	×	35	304
., 20-25.—Haplophragmium foliaceum, Brady, Figs. 20-23. Specimens in various stages of growth; lateral aspect. Fig. 24. Specimen mounted in Canada balsam and viewed by transmitted light. Fig. 25. Peripheral aspect.	×	40	304
,, 26–28.—Haplophragmium emaciatum, n. sp., Figs. 26, 27. Lateral aspect; fig. 28, peripheral aspect.	×	25	305



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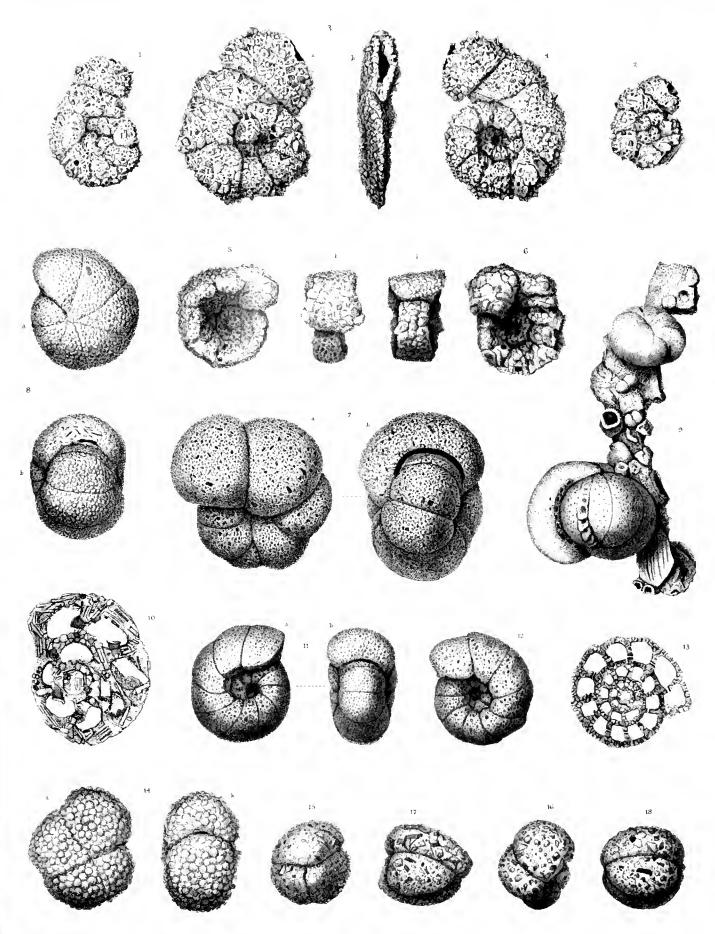


PLATE XXXIV.

PLATE XXXIV.

Haplophragmium.

Figures 1-4.—Haplophragmium fontinense, Terquem, Figs. 1, 2, 3 a. 4. Lateral aspect; 3 b, peripheral aspect.	×	Diam. 20	Page 305
,, 5, 6.—Haplophragmium rotulatum, Brady	×	50	306
., 7-10, 14.—Haplophragmium latidorsatum, Bornemann, sp.,			307
Figs. 7 a , 8 a . Lateral aspect; b , b , peripheral aspect,	×	20	
Fig. 9. Specimens built into the wall of an annelid- tube; the lower test showing a cribrate aperture, Fig. 10. Horizontal section of the test.	`	15	
Fig. 14. Small compressed variety, occurring off Kandavu,	×	40	
" 11–13.—Haplophragmium scitulum, Brady,	×	40	308
Figs. 11 a , 12. Lateral aspect; 11 b , peripheral aspect. Fig. 13. Horizontal section of the test.			•
., 15-18.—Haplophragmium glomeratum, Brady,	×	100	309



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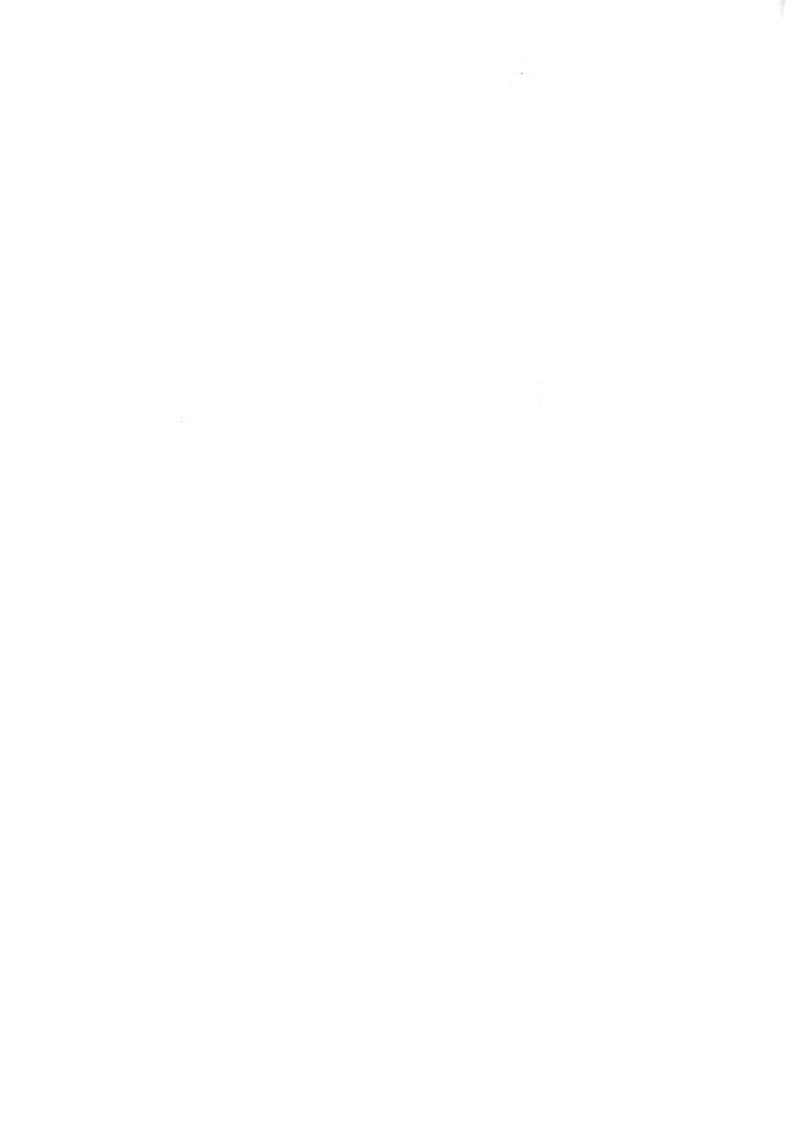
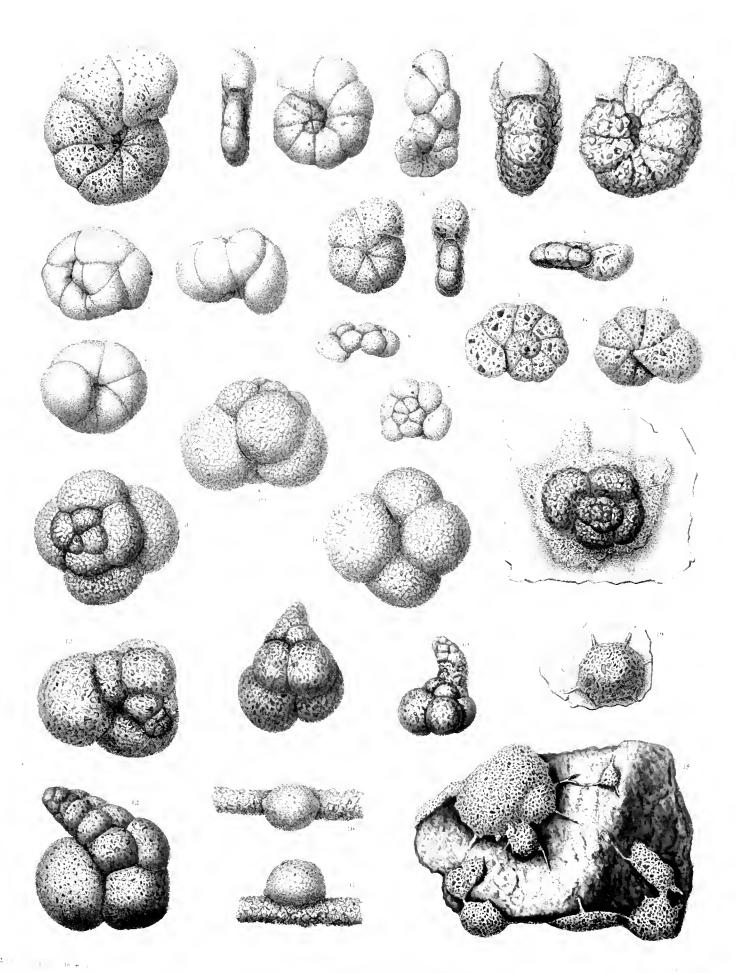


PLATE XXXV.

PLATE XXXV.

Haplophragmum.—Placopsilina.

			Diam.	Page
Figures	1-5.—Haplophragmium canariense, d'Orbigny. sp.,	,		310
•=:	Figs. 1, 2 a, 3 a. Lateral aspect; b, b. peripheral aspect,	×	50	
	Fig. 4. a , Lateral aspect; b , peripheral aspect,	×	30	
	Fig. 5. Monstrous specimen,	×	50	311
••	6-8.—Haplophragmium nanum, Brady,			311
	Fig. 6. a, Superior aspect; b, inferior aspect; c, peripheral aspect,—typical form.	×	120	
	Fig. 7. Superior aspect; fig. 8, peripheral aspect,—irregularly built specimens,	×	60	
,.	9.—Haplophragmium turbinatum, Brady,	×	40	312
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
., 1	0, 11.— Haplophragmium globigeriniforme. Parker and			
	Jones, sp.,	×	25	312
	 Fig. 10. a, Superior aspect; b, inferior aspect; c, peripheral aspect. Fig. 11. Adherent specimen. 			
., 1	2–15.—Haplophragmium anceps, n. sp.,			313
	Fig. 12. Superior aspect,	×	25	
	Figs. 13-15. Lateral aspect,	×	20	
., 1	6, 17.—Placopsilina bulla, Brady,	×	20	315
	Fig. 16. Superior aspect; fig. 17, lateral aspect. Specimens growing adherent to fragments of Rhabdammina.			
1	8, 19.—Placopsilina vesicularis. Brady,	X	12	316



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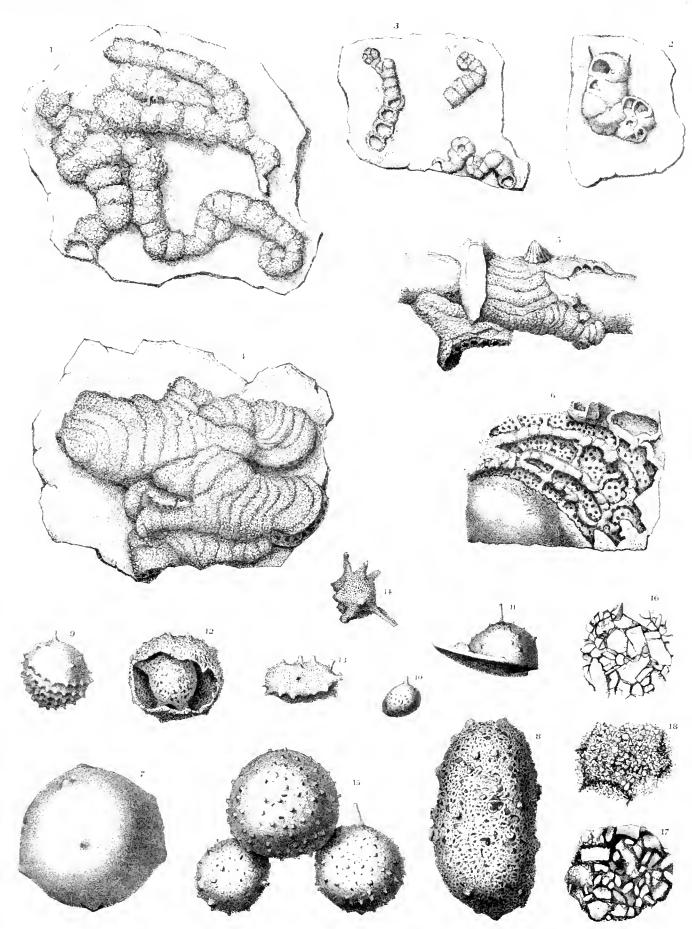


PLATE XXXVI.

PLATE XXXVI.

Placopsilina.—Bdelloidina.—Thurammina.

			Diam.	\mathbf{Page}
Figures	1 3.—Placopsilina cenomana, d'Orbigny, sp			315
O	Fig. 1,	×	15	
	Fig. 2,	×	30	
	Fig. 3,	×	50	
.,	4-6.—Bdelloidina aggregata, Carter	,		319
	Figs. 4, 5. General aspect of the parasitic test,	×	15	
	Fig. 6. Portion laid open to show the interior,		30	
: ,	7-18.— Thurammina papillata, Brady,			321
	Fig. 7. Globular specimen; fig. 8, oval specimen,	×	30	
	Figs. 9, 10. Specimens with tubulated aperture.		50	
	Fig. 11. Adherent test,	×	50	
	Fig. 12. Specimen with an internal chamber,	×	50	
	Figs. 13, 14. Internal or primordial chambers, outer			
	tests removed,		50	
	Fig. 15. Specimen formed of three adherent spheres,	×	50	
	Figs. 16-18. Portions of specimens from different			
	localities, mounted in Canada balsam; showing			
	the variability of the test in point of minute			
	structure,	×	100	



LITUOLA (Planopolinia Faelo pina -THURAMMINA

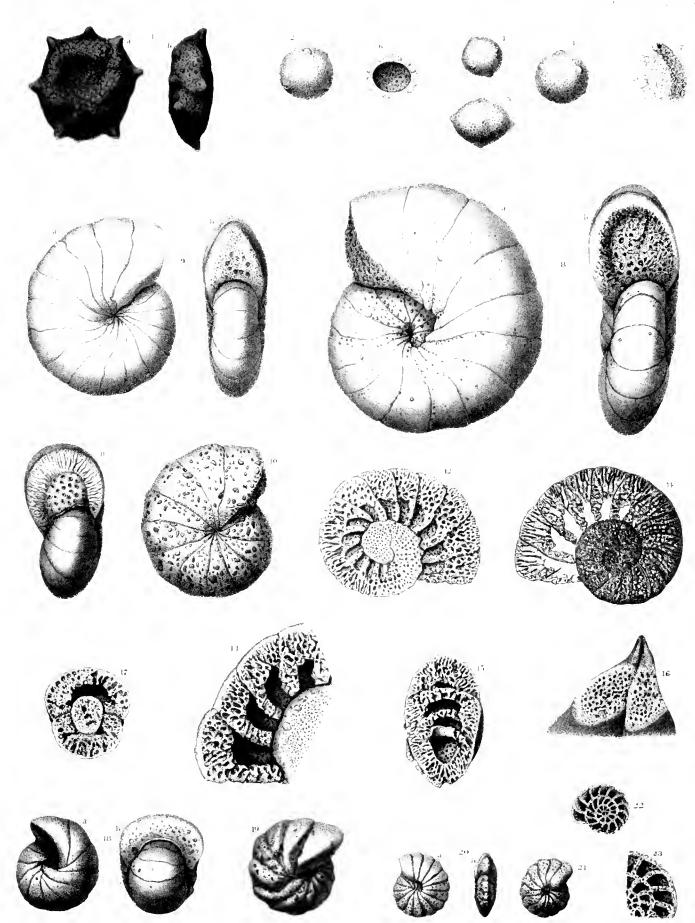


PLATE XXXVII.

PLATE XXXVII.

THURAMMINA.—CYCLAMMINA.

		Diam.	Page
Figure 1.—Thurammina compressa, Brady,	×	50	324
u, Lateral aspect; b, peripheral aspect.			
., 2-7.—Thurammina albicans, Brady,			323
Figs. 2-5. Lateral aspect, Fig. 6. Specimen laid open, to show the thickness of the	×	50	
walls and the character of the internal cavity, . Fig. 7. Section of the test, showing its minute structure, .	×	$\frac{50}{100}$	
,, 8–16.—Cyclammina cancellata, Brady.			351
Figs. 8 a. 9 a, 10. Lateral aspect; figs. 8 b, 9 b, 11, peripheral aspect.	×	15	
Figs. 12, 13. Specimens laid open horizontally to show the internal structure,	×	15	
Fig. 14. Horizontal section of the test viewed by transmitted light,	×	15	
Fig. 15. Part of a specimen laid open transversely, Fig. 16. Exterior with a portion of the imperforate coating scraped away, showing the tubulated structure imme-	×	15	
diately beneath,	×	30	
17-19.—Cyclammina orbicularis, Brady.	×	15	353
Fig. 17. Specimen laid open transversely showing the internal structure. Figs. 18 a, 19. Lateral aspect: 18 b, peripheral aspect.			
Figs. 18 a, 19. Lateral aspect. 10 b, peripheral aspect.			
., 20-23.—Cyclammina pusilla, Brady.			353
Figs. 20 a. 21. Lateral aspect; 20 b, peripheral aspect, Fig. 22. Specimen laid open horizontally to show the	×	15	
interior, .	×	15	
Fig. 23. Portion of the same more highly magnified,	- 8	30	



THURAMMINA CYCLAMMINA



PLATE XXXVIII.

PLATE XXXVIII.

Ammodiscus.

		Diam.	Page
Figures 1-3.—Ammodiscus incertus, d'Orbigny, sp.,	•	•	330
Fig. 1. a , Lateral aspect; b , peripheral aspect,	. ×	15	
Fig. 2. Small specimen,	. ×	25	
Fig. 3. Test laid open horizontally, showing the spira cavity and the relative thickness of the wall,	. ×	15	
" 4–6.—Ammodiscus tenuis, Brady,			332
Fig. 4. Small specimen,	. ×	25	
Figs. 5 a , 6. Large examples, lateral aspect; 5 b , per pheral aspect,		15	
" 7–9.—Ammodiscus gordialis, Jones and Parker, sp.,	. ×	70	333
" 10–16.—Ammodiscus charoides, Jones and Parker. sp., Fig. 16. Section of the test.	. ×	70	334
,, 17–19.—Animodiscus shoncanus, Siddall, sp., $a, a, \text{ Lateral aspect }; \ b, b, \text{ oral aspect.}$. ×	100	335
., 20–22.—Ammodiscus spectabilis, Brady,	. ×	12	336

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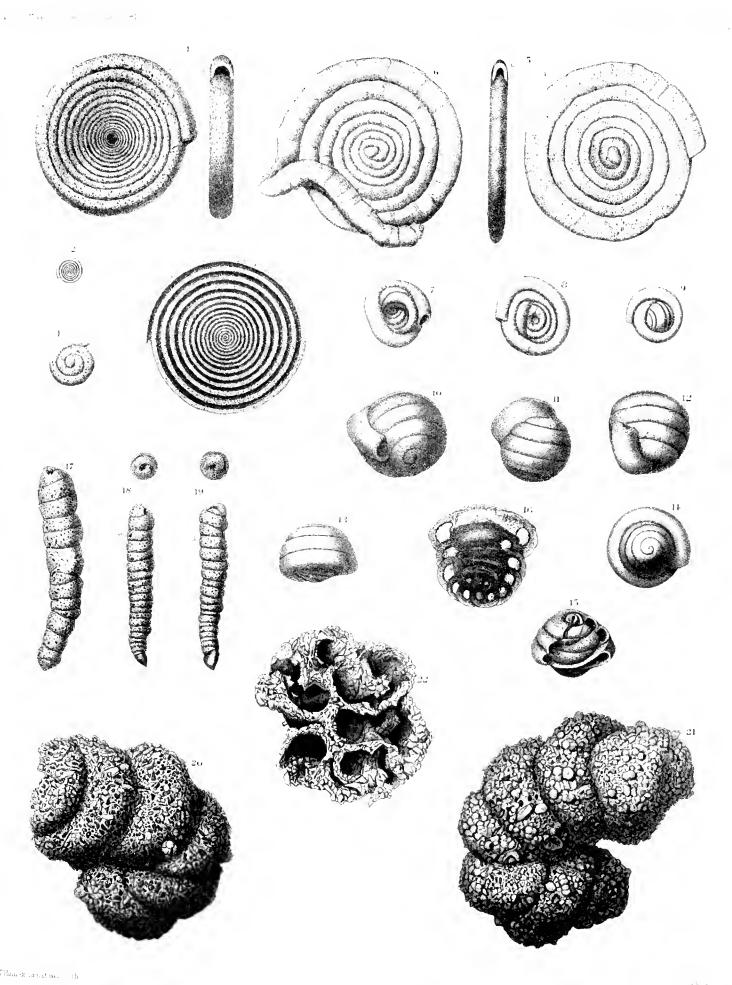




PLATE XXXIX.

PLATE XXXIX.

Hormosina.

		Diam.	Page
Figures 1-6.—Hormosina globulifera, Brady,	×	15	326
Figs. 1-1 a , Lateral aspect: 1 b , oral aspect.			
Fig. 5. Anomalous two-chambered specimen.			
Fig. 6. Fragment showing the aperture from the interior side.			
" 7-9.—Hormosina ovicula, Brady, .	×	15	327
Figs. 7, 8 a, 9. Lateral aspect; 8 b, oral aspect.			
7. D. 1.		10	328
" 10-13.—Hormosina monile, Brady,	×	10	920
" 14–18.—Hormosina carpenteri, Brady,	×	10	327
Fig. 18. Longitudinal section of the test.			
., 19-23.—Hormosina normani, Brady,	×	10	329
Fig. 23. Fragment showing a portion of the interior of			
two chambers with the apertures.			

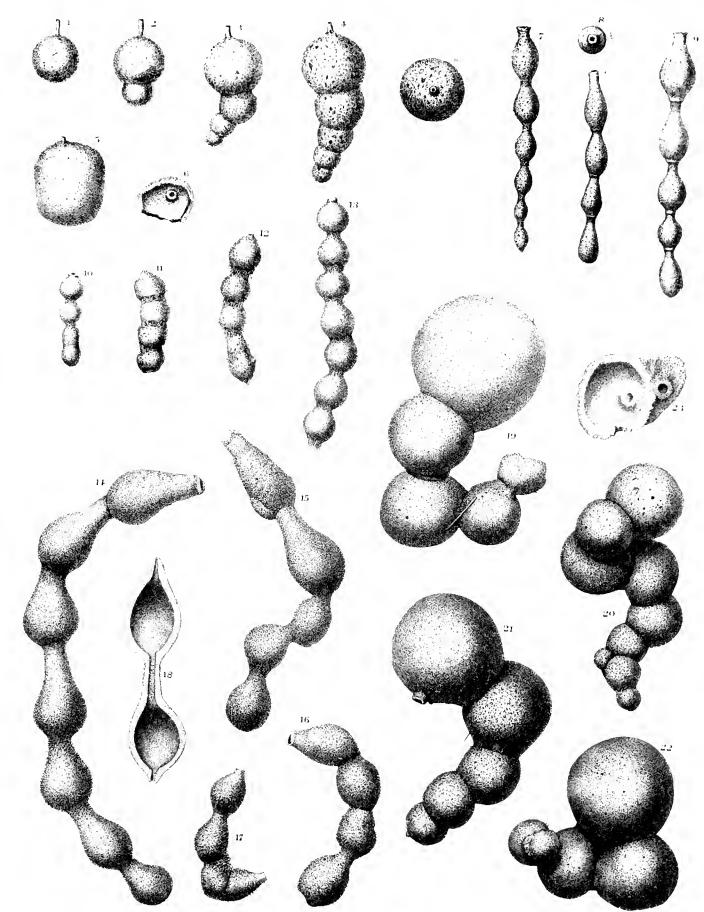




PLATE XL.

PLATE XL.

Троснаммила.

		Diam.	Page
Figures 1-3.—Trochammina proteus, Karrer,	×	25	341
., 4 7.—Trochammina lituiformis, Brady	×	20	342
., 8, 9.—Trochammina conglobata, n. sp.,	×	30	341
., 10-12.—Trochammina coronata, Brady,	×	20	340
Figs. 10, 11 a , Lateral aspect; 11 b , peripheral aspect. Fig. 12. Test laid open horizontally to show the interior.			
,, 13–16.—Trochammina trullissata, Brady,			342
Figs. 13 a, 14 a. Lateral aspect; b, b, peripheral aspect,	×	30	
Fig. 15. Lateral aspect,	×	50	
Fig. 16. Inner surface of the test,	×	60	
,, 17, 18.—Trochammina ringens, Brady,			343
Fig. 17. a, Lateral aspect; b, peripheral aspect,	×	4.5	
Fig. 18. a , Lateral aspect; b , peripheral aspect,	×	30	
., 19–23.—Trochammina galeata, Brady,	×	50	344
Figs. 19-22. Lateral aspect; fig. 23, peripheral aspect.			•

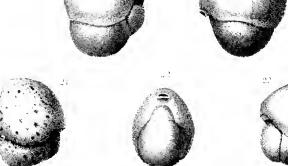








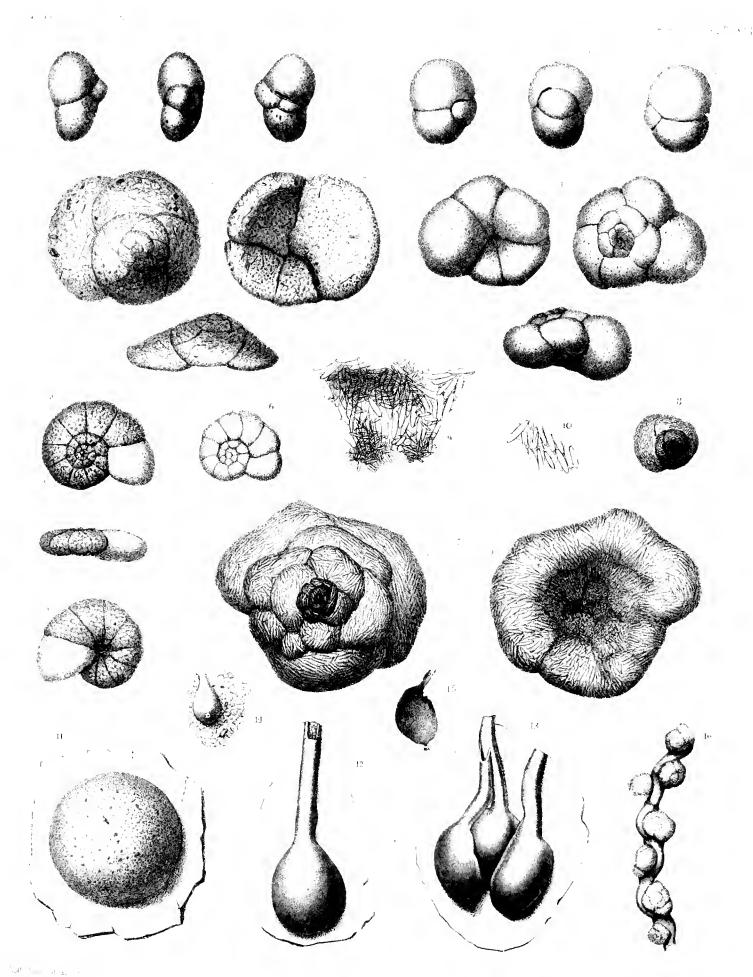




PLATE XLI.

${\bf Trochammina.---Carterina.---Webbina.}$

Figures 1, 2.—Trochammina panciloculata, Brady, $a, a,$ Superior lateral aspect; $b, b,$ inferior lateral aspect; $c, c,$ peripheral aspect.	×	Diam. 50	Page 344
,. 3.—Trochammina squamata, Jones and Parker, a, Superior aspect; b , inferior aspect; c , peripheral aspect.	×	50	3 37
4.—Trochammina inflata, Montagu, sp.,	×	50	338
,, 5, 6.—Trochammina nitida, Brady,	×	50	339
7-10.—Carterina spiculotesta. Carter, sp., Fig. 7 α, Superior aspect; b, inferior aspect, Fig. 8. Young specimen, Figs. 9, 10. Fragments of the test mounted in Canada balsam, showing the form and arrangement of the spicules,	× ×	50 50	346
., 11.—Webbina hemisphærica, Jones, Parker, and Brady,	×	25	350
., 12-16.—Webbina clarata, Jones and Parker. Figs. 12, 13. Adherent specimens. Fig. 14. Small specimen with orifice on the superior surface. Fig. 15. Inferior aspect, showing the cavity of the test. Fig. 16. Long tubular neck, adherent to Globigeriae.	×	25	349



Finance eme



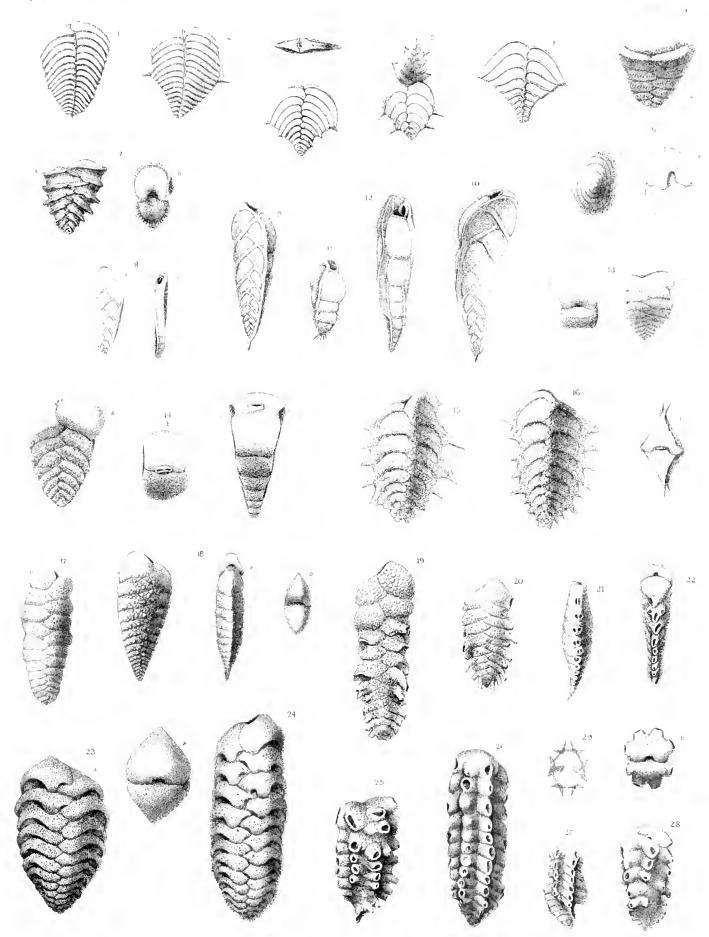
PLATE XLII.

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PLATE XLII.

Textularia.

I BATE BARE			
Figures 1-5.—Textularia folium, Parker and Jones, Figs. 1-4. Lateral aspect; b, oral aspect. Fig. 5. Double specimen.	×	Diam. 60	Page 357
., 6.—Textularia inconspicua, n. sp	×	70	357
,. 7.—Textularia jugosa, n. sp., a, Lateral aspect; b, oral aspect.	×	70	358
., 8-12.—Textularia quadrilatera, Schwager, Figs. 8 a, 9, 10. Lateral aspect; figs. 8 b, 11, 12, peripheral aspect.	×	35	358
., 13, 14.—Textularia concava, Karrer, sp.,	×	35	360
,, 15, 16.—Textularia carinata, d'Orbigny, Figs. 15, 16. Lateral aspect; h, oral aspect.	×	30	360
,, 17, 18.—Textularia sagittula, Defrance,	×	35	361
,, 19–22.— Textularia sagittula, var. fistulosa, nov., Figs. 19, 20. Lateral aspect; figs. 21, 22, peripheral aspect.	×	25	362
23. 24.—Textularia rugosa, Reuss, sp., Figs. 23 a, 24. Lateral aspect; 23 b, oral aspect.	×	25	36 3
,, 25–29.—Textularia siphonifera, Brady	×	30	362



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TEXTULARIA



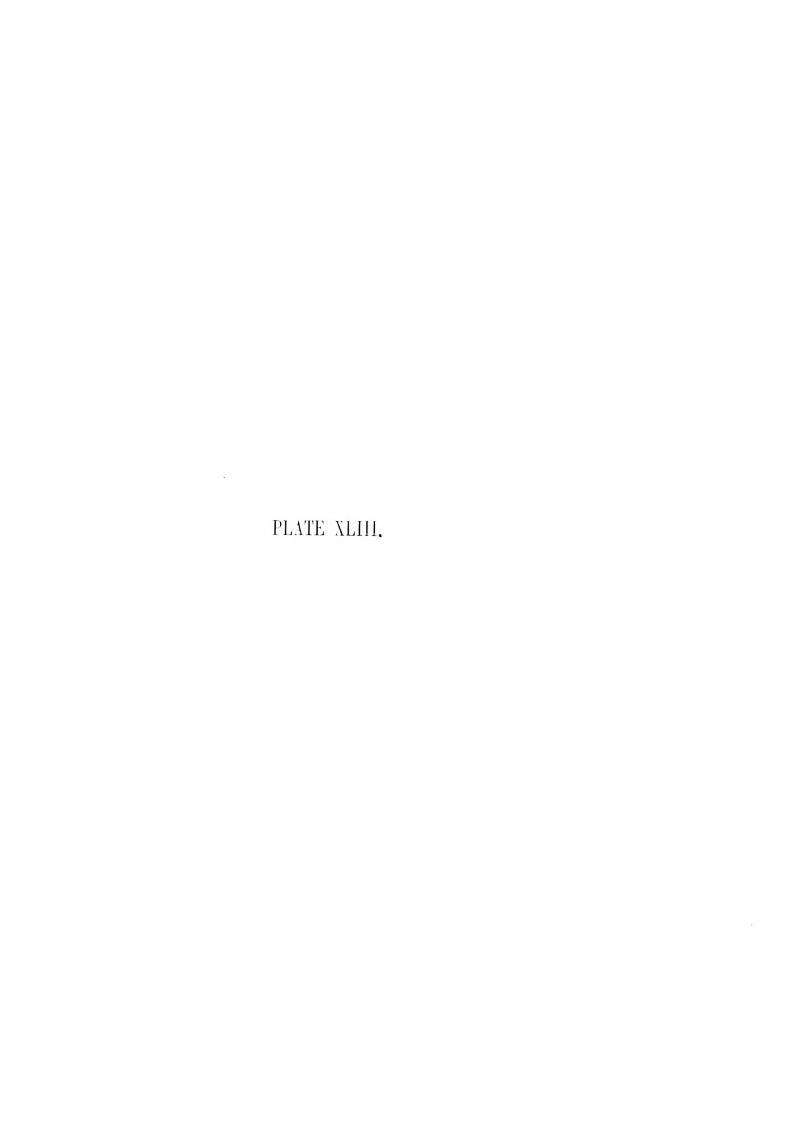
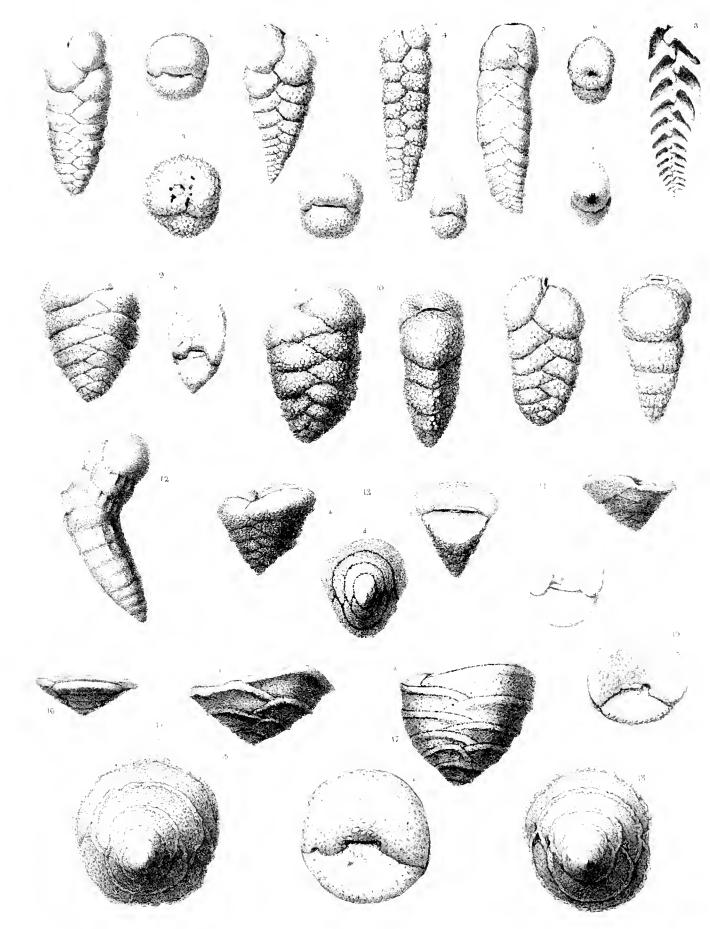


PLATE XLIII.

TEXTULARIA.

			1	Diam.	Page
Figures	1 3 Textularia agglutinans, d'Orbigny,		×	25	363
	Figs. 1, 2, a , a , Lateral aspect; b , b , oral aspect.				
	Fig. 3. Specimen with porous aperture, oral aspect.				
	4. Textularia agglutinans, var. porrecta, nov.,		×	25	364
••	a, Lateral aspect : b , oral aspect.				
	n, Battar aspect, b, or a aspect				
	5 8.—Textularia luculenta, n. sp		×	20	364
••	Fig. 5. Lateral aspect: figs. 6, 7, oral aspect.			_	
	Fig. 8. Specimen laid open longitudinally, showing t	he			
	change of the position of the aperture in the lat				
	segments.				
	9. 10.—Textularia yramen, d'Orbigny,				365
	Fig. 9. α , Lateral aspect; b , oral aspect,		×	30	
	Fig. 10. a , Lateral aspect; c , peripheral aspect,		×	18	
••	11Textularia concara. Karrer, sp		×	30	360
••	a, Lateral aspect; c , peripheral aspect.				
	W. W. Charles C. V. F. T. T.				
	12.—Textularia agglutinans, deformed specimen, wit	: h			
			×	25	364
	traces of longitudinal costa	•	^	U	901
	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		V	40	365
	3. 14.—Textularia conica, d'Orbigny.		×	40	500
	a, a. Lateral aspect; b , oral aspect; c , periph	erai			
	aspect; d, aboral aspect.				
	To the Total wind to allow I'll believe				366
* *	10-10-			•	000
	Figs. 15 a , 16. Lateral aspect; figs. 15 d , 18, aboral	ı	ж	40	
	aspect, Fig. 17. a. Lateral aspect; figs. 17 b. 19, oral		,.	• •	
	aspect,		×	25	



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TEXTULARIA



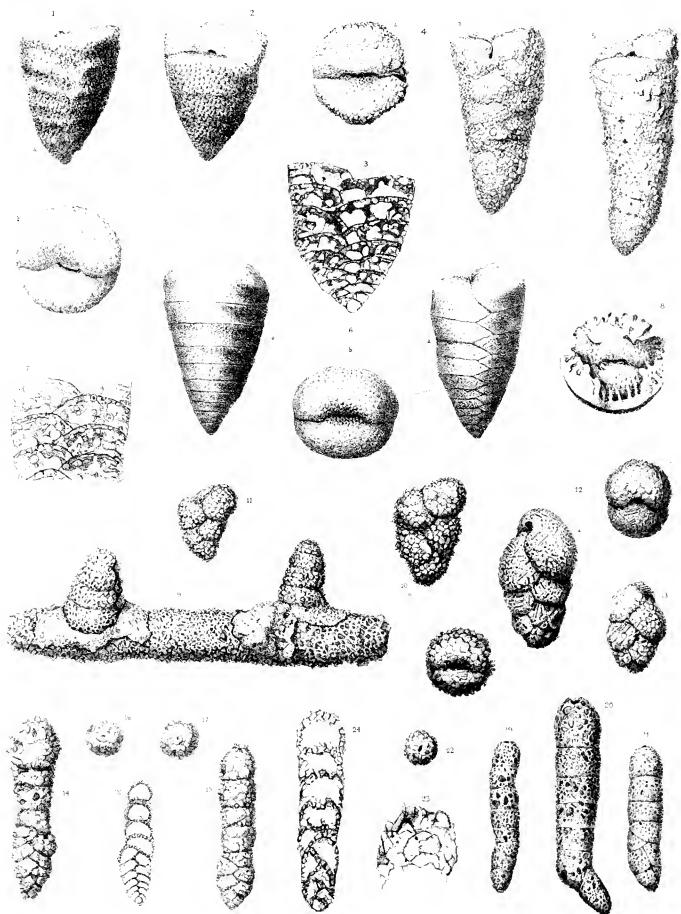
PLATE XLIV.

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PLATE XLIV.

TEXTULARIA.—BIGENERINA.

	Diam.	$_{\mathrm{Page}}$
Figures 1-3.—Textularia trochus, d'Orbigny,		366
Fig. 1. a , Lateral aspect; b , oral aspect; fig. 2, peri-		
pheral aspect,	× 35	
Fig. 3. Longitudinal section, showing the labyrinthic		
structure of the interior,	\times 25	
4, 5.—Textularia turris, d'Orbigny,		366
Fig. 4. a , Lateral aspect; b , oral aspect,	× 18	
Fig. 5. Peripheral aspect,	× 15	
,, 6-8.—Textularia barrettii, Jones and Parker,		367
Fig. 6. a, Lateral aspect; b, oral aspect; c, peripheral		
aspect,	× 18	
Fig. 7. Longitudinal section, showing the labyrinthic		
interior,	\times 20	
Fig. 8. Test fractured transversely,	× 30	
, 9-13.—Textularia aspera, Brady	× 20–25	367
Fig. 9. Specimens growing upon a fragment of Rhab-dammina.		
Figs. 10 a , 11, 12 a , 13. Lateral aspect; b , b , oral aspect.		
., 14-18.—Bigenerina nodosaria, d'Orbigny.	× 3.5	369
Figs. 14, 15. Lateral aspect; figs. 16, 17, oral aspect.		
Fig. 18. Longitudinal section of the test.		
" 19-24.— Bigenerina digitata, d'Orbigny,		370
Figs. 19, 20, 21. Lateral aspect; fig. 22, oral aspect,	× 35	
Fig. 23. Section of the wall, showing the arenaceous		
structure,	× 60	
Fig. 24. Longitudinal section of the test,	\times 35	



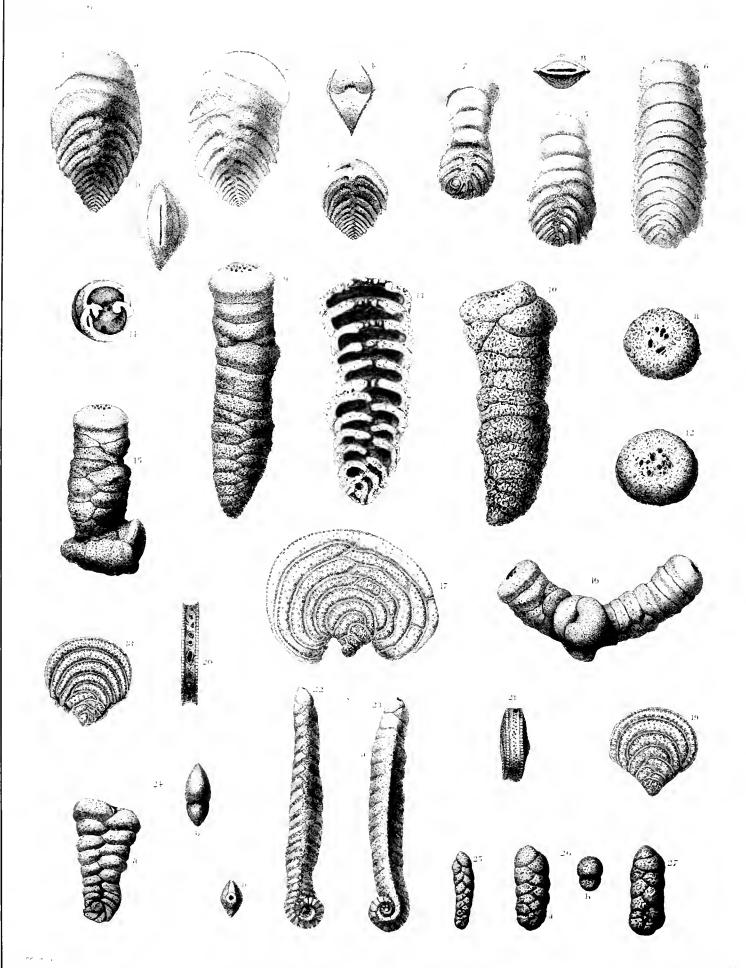
TEXTULARIA Textularia. Bugenerina



PLATE XLV.

BIGENERINA.—PAVONINA.—SPIROPLECTA.

DIGENERINA.—I AVONINA.—5 THOU INC. IA.			
		Diam.	Page
Figures 1-4.—Bigenerina capreolus, d'Orbigny, sp	×	20	372
Figs. 1 a , 2. Adult specimens, lateral aspect; 1 b , oral aspect.			
Fig. 3. Young specimen, lateral aspect; fig. 4, oral aspect.			
5-8.—Bigenerina pennatula, Batsch, sp.,	×	20	373
Figs. 5, 6, 7. Lateral aspect; fig. 8, oral aspect.			
9–16.—Bigenerina robusta, Brady.	×	14	371
Figs. 9, 10. Lateral aspect; figs. 11, 12, oral aspect.Fig. 13. Specimen laid open longitudinally to show the interior.			
Fig. 14. Test fractured transversely.			
Figs. 15, 16. Monstrous specimens, showing different forms of aperture.			
" 17–21.—Paronina flabelliformis, d'Orbigny,			374
Fig. 17, Lateral aspect,	×	50	
Figs. 18, 19. Lateral aspect; figs. 20, 21, oral aspect, .	×	60	
22, 23.—Spiroplecta annectens, Parker and Jones, .	×	60	376
Figs. 22, 23 a , Lateral aspect; b , oral aspect.			
24.—Spiroplecta americana, Ehrenberg,	×	60	376
a, Lateral aspect: b , oral aspect.			
., 25-27.—Spiroplecto biformis, Parker and Jones, sp			376
Fig. 25. Lateral aspect,	×	100	
Figs. 26 a , 27. Lateral aspect; 26 b , oral aspect.	×	80	



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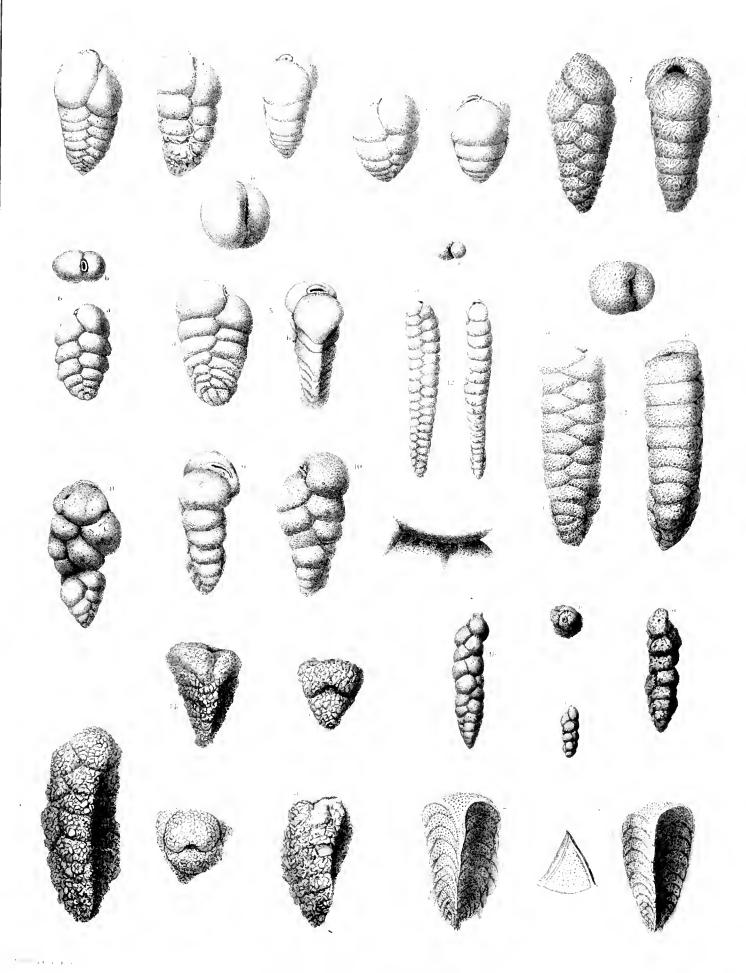


PLATE XLVI.

PLATE XLVI.

GAUDRYINA.—CHRYSALIDINA.

		Diam.	Page
Figures 1-4.—Gandryina pupoides, d'Orbigny,	×	30	378
Figs. 1, 2 a, 4 a. Lateral aspect; fig. 2 b, oral aspect; figs. 3, 4 b. peripheral aspect.			
,, 5, 6. —Gandryina pupoides, var. chilostoma, Reuss, .			379
Fig. 5. a, Lateral aspect; b, peripheral aspect,	×	25	
Fig. 6. a , Lateral aspect; b , oral aspect,	×	10	
7.—Gandryina scabra, n. sp	×	20	381
a, Lateral aspect : b , peripheral aspect.			
., 8-11.—Gandryina baccata, Schwager,			379
Figs. 8, 10. Lateral aspect; fig. 9, peripheral aspect, Fig. 11. Portion of a specimen with the sutural	×	20	
depressions bridged over at intervals.	×	60	
., 12.—Gandryina filiformis, Berthelin,	×	50	380
a , Lateral aspect $,\ b$, peripheral aspect $;\ c$, oral aspect.			
13.—Gaudryina subrotundata, Schwager,	×	20	380
a , Lateral aspect : b , peripheral aspect ; ε , oral aspect.			
14-16. — Gaudryina ragosa, d'Orbigny,			381
Fig. 14. Lateral aspect,		35	
Fig. 15. a , Lateral aspect : b , oral aspect.	×	20	
Fig. 16. a , Lateral aspect; b , oral aspect.	×	25	
17-19. —Gandryina siphonella, Reuss.	×	4()	382
Figs. 17 a , 18, 19. Lateral aspect; 17 b , oral aspect.			
20, 21. Chrysalidina dimorpha. Brady	×	70	388
Figs. 20, $21a$. Lateral aspect: b , oral aspect.			



TEXTULARIA. :

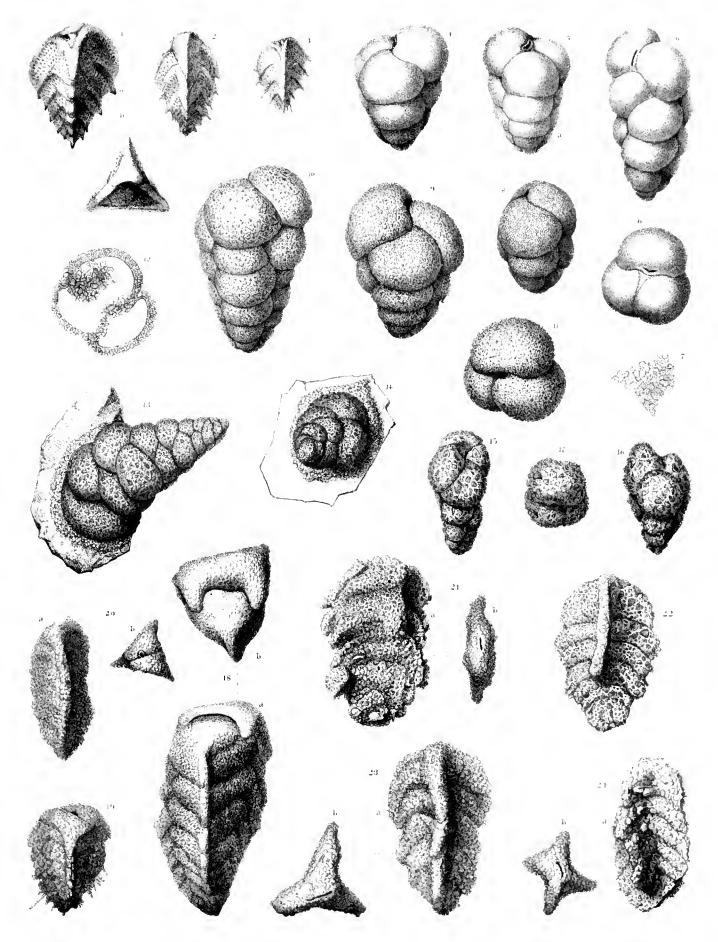


PLATE XLVII.

PLATE XLVII.

VERNEUILINA.

Figures	1 -3.— Verneuilina spinulosa, Reuss, Figs. 1 a. 2, 3. Lateral aspect; 1 b, oral aspe			Dia × 70	
3.5	4 7.—Vernevilina pygmaa, Egger. sp., .				385
	Figs. 4, 6, Lateral aspect,	*		x 35	
	Fig. 5. a , Lateral aspect; b , oral aspect,		,	- 25	
	Fig. 7. Section of the shell, showing its fr	nely arena	:1-		
	ceous structure, .	•		× 120	
,, 8	14.— Verneuilina propinqua, n. sp., .				387
	Figs. 8, 9. Lateral aspect,			× 20	1
	Fig. 10. Lateral aspect; fig. 11, oral aspect, Fig. 12. Transverse section of the test.			× 14	
	Figs. 13, 14. Adherent specimens,		٠	× 20	
1.5	17 Verneuilina polystropha, Reuss, sp., Figs. 15. 16. Lateral aspect; fig. 17, oral as	Ultimost		× 60	386
	rigs. 10. 10. Latteral aspect, fig. 11, that as	spece.			
18	-20.— Vernevilina triquetra, Münster, sp.,				383
	Fig. 18. a, Lateral aspect; b, oral aspect,			× 11	
	Figs. 19, $20 a$. Lateral aspect; b , oral aspect	,		× 20	
,. 21	24. — Verneuilina variabilis, n. sp.,			× 1-	385
	a, a, a. Lateral aspect of specimens of varie b, b, b , and aspect of the same.	ous forms	3;		



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TEXTULARIA

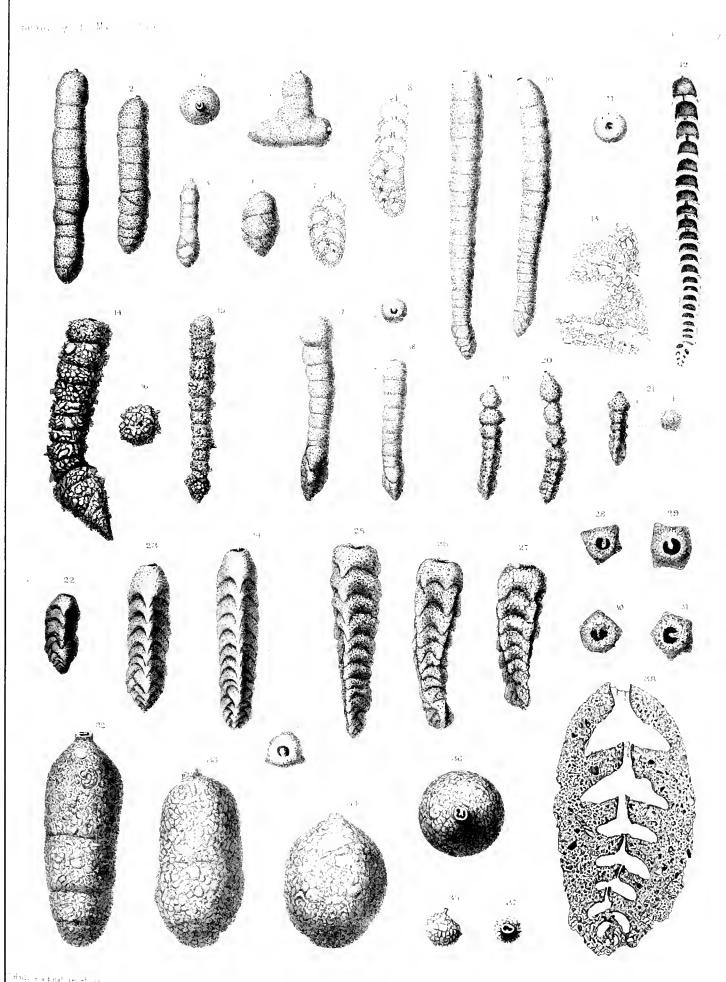


PLATE XLVIII.

PLATE XLVIII.

CLAVULINA.

				Diam.	Page
Figures 1–13.—Clavulina communis, e	l'Orbigny				394
	pect; fig. 6, oral aspect		, ×	25	
	, , ,		. ×	30	
	imen.		. ×	30	
	ecimen,		. ×	25	
	ual sections of the test,		. ×	30	
	cimens, lateral aspect : :		1		
aspect, .			, ×	15	
	men laid open to show			1.5	
Fig. 13. Portion of a	longitudinal section n	nore highly	v.		
magnified, sho	wing the minute struc	ture of the	ů.		
test, .			, ×	100	
., 14-18.—Clavulina parisiensis,	d'Orbigny,				395
	aspect : fig. 16, oral as	spect.	, X	18	
	il aspect : b , oral aspec			30	
., 19–21.— Clavulina parisiensis.	var <i>humilis</i> , nov.		. ×	40	395
•					
Figs. 19, 20, 21 a. La	ateral aspect; b , oral as	spect.			
., 22-24.—Clavulina angularis. C	l'Orbigny, .		. ×	3.5	396
Figs. 22, 23, 24 a. La	ateral aspect : b , oral as	spect.			
,. 25–31.— Clavulina angularis, x	ar <i>difformis</i> , nov.		. ×	40	396
The state of the s	aspect; figs. 28-31, or				
rigs, 25-27, Lateral	aspect; figs. 26-51, or	at aspect.			
., 32-38.—Clavulina eylindrwa,	Hantken	*			396
Figs. 32-35. Lateral	aspect : figs. 36, 37, or	ral aspect,	, ×	20	
Fig. 38. Longitudina	l section, showing t	he minute	Ľ		
structure of th	e test and the arranger	nent of the	e		
chambers,	,		. ×	15	



VALVUE,NA



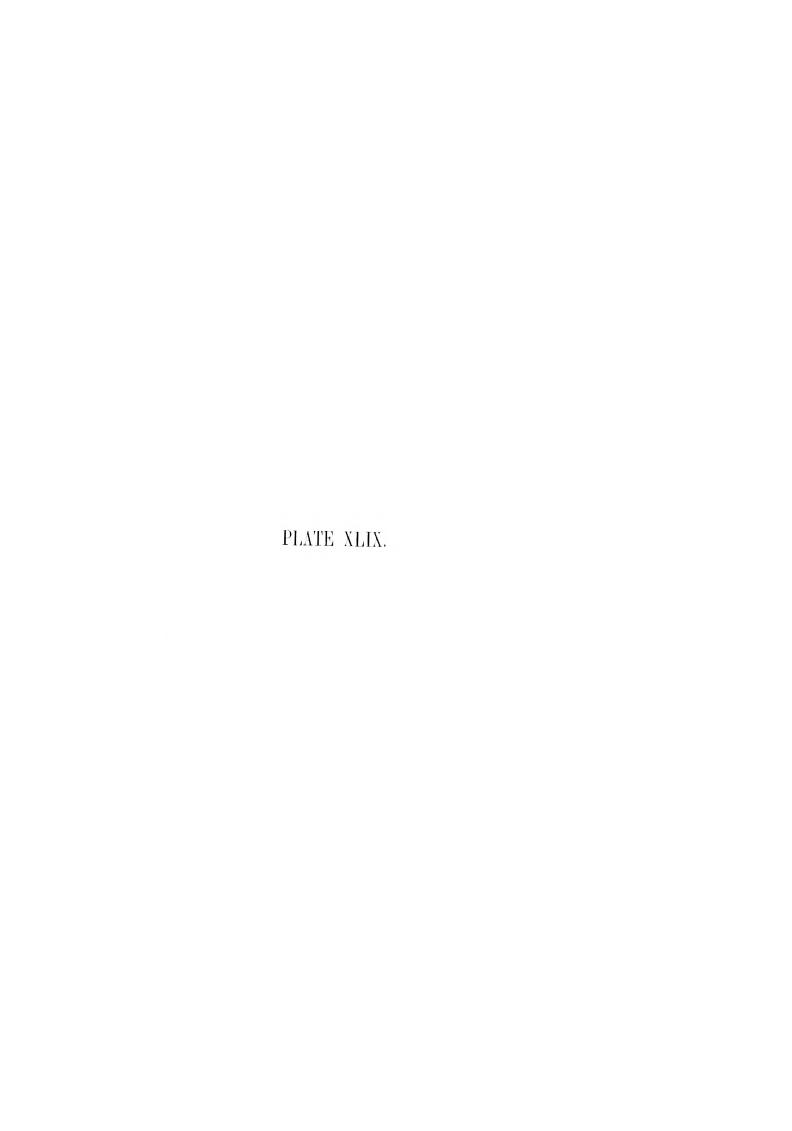
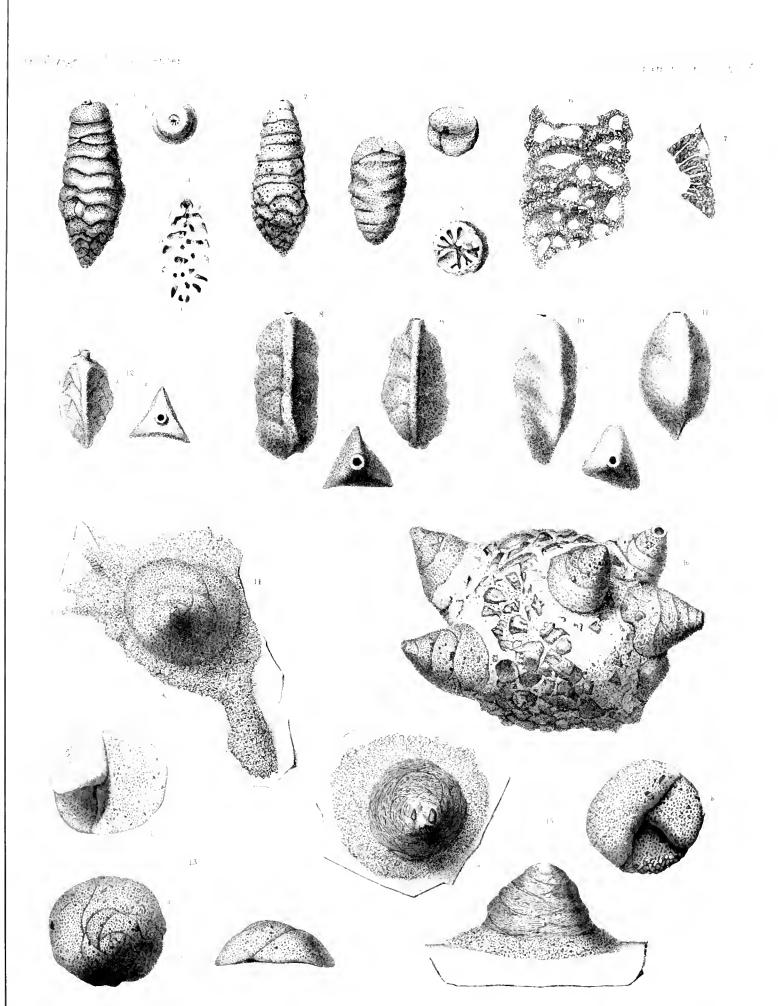


PLATE XLIX.

Tritaxia. —Valvulina.

		Diam.	Page
Figures 1-7.—Tritaxia vaperata, Brady,			390
Figs. 1 a, 2. Adult specimens, lateral aspect; 1 b, oral aspect,	×	16	
Fig. 3 n , Young specimen, lateral aspect; b , oral aspect,	×	16	
Fig. 4. Specimen laid open longitudinally; fig. 5, specimen broken transversely;—showing the			
labyrinthic interior,	'.	16	
Fig. 6. Longitudinal section of the test,	×	30	
Fig. 7. Portion of the outer wall of the same more highly magnified, showing the pore-canals,	×	120	
,, 8, 9.—-Tritawia tricarinata, Reuss	×	35	389
Figs. 8 a , 9. Lateral aspect; b , oral aspect.			
., 10, 11.—Tritaxia indiscreta, Brady,	×	25	389
Figs. 10 a , 14. Lateral aspect; 10 b , oral aspect.			
" 12.— <i>Tritaxia lepida</i> , Brady	×	80	389
a, Lateral aspect; b , oral aspect.			
" 13, 44.— Valrulina fusca, Williamson sp			392
Fig. 13. a , Superior aspect; b , inferior aspect; c , peri-			
pheral aspect,	×	50	
Fig. 14. Adherent specimen.	×	40	
15. 16.—Valvulina conica, Parker and Jones,			392
Fig. 15. a , Superior aspect : b , inferior aspect : c , peripheral aspect,		50	
Fig. 16. Colony of specimens adherent to the test of Saccammina spharica.		4.0	
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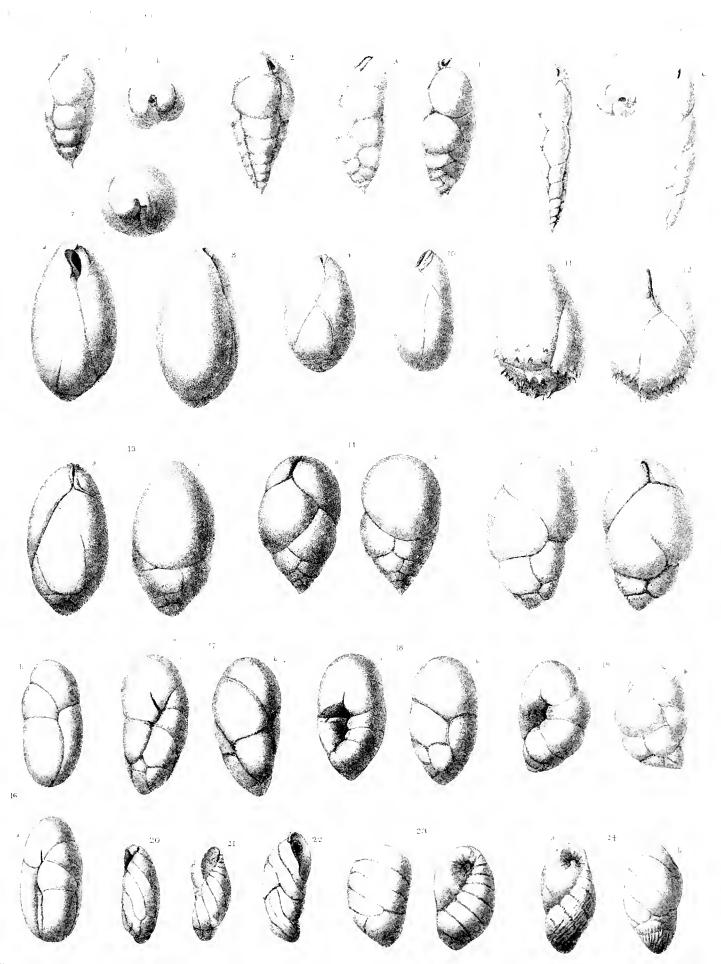


PLATE L.

PLATE L.

Bulimina.

Figures 1-4.—Bulimina elegans, d'Orbigny,	٠		Diam.	Page 398
Fig. 1. a , Lateral aspect; b , oral aspect, Figs. 2–4. Lateral aspects,		×	60 50	
., 5, 6.—Bulimina elegans, var exilis, nov., . Figs. 5 a, 6. Lateral aspect; b, oral aspect.	٠	×	60	399
,, 7–10.—Bulimina pyrula, d'Orbigny, Figs. 7 a, Lateral aspect; b, oral aspect, .		×	40	399
Figs. 8, 9, 10. Lateral aspect,	•	×	50 60	400
., 13.—Bulimina ovata, d'Orbigny, Lateral aspects.		×	50	400
,, 14.—Bulimina affinis, d'Orbigny, Lateral aspects.		×	50	400
,, 15.—Bulimina pupoides, d'Orbigny, Lateral aspects.	٠	×	45	400
,, 16.—Bulimina subcylindrica, Brady, Lateral aspects.		×	80	404
,, 17, 18. — Bulimina subteres, Brady, Lateral aspects; fig. 17, \times 60;—fig. 18, .		×	80	403
,. 19.—Bulimina declivis, Reuss, Lateral aspects.		×	70	404
,, 20-22.—Bulimina elegantissima, d'Orbigny, . Lateral aspects.	•	×	80	402
" 23, 24.—Bulimina elegantissima, var. seminuda, Terquen Lateral aspects.	n, .	×	80	403



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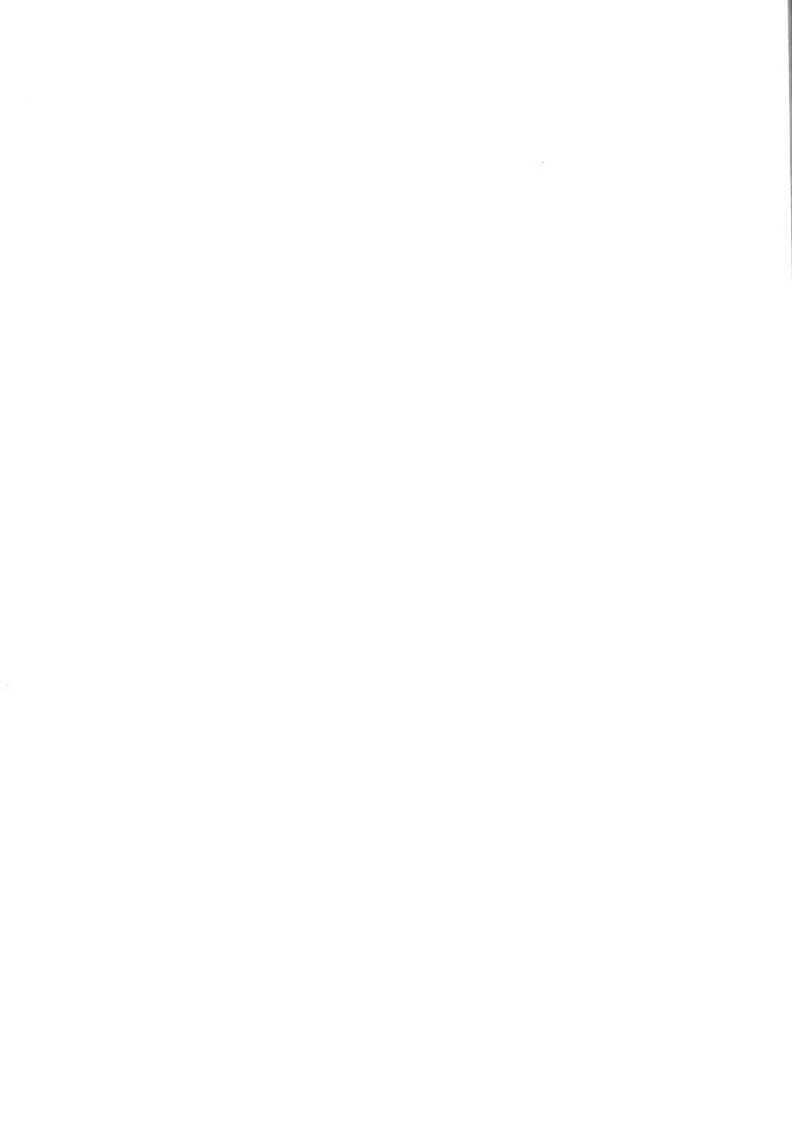


PLATE LI.

PLATE LI.

BULIMINA.—PLEUROSTOMELLA.

Figure 1.—Bulimina clongata, d'Orbigny,	. ×	Diam. 70	Page 401
,. 2.—Intermediate specimen, with characters approaching those of $Bulimina\ orata$, .	g . ×	80	401
,. 3-5.—Bulimina marginata, d'Orbigny, Figs. 3, 4, 5. Lateral aspect; r, oral aspect.	. ×	80	405
6.—Bulimina subornata, Brady, Lateral aspects.	. ×	80	402
,, 7-9Bulimina aculeata, d'Orbigny, Figs. 7, 8, 9. Lateral aspects; c, oral aspect.	. ×	60	406
., 10–13.—Bulimina inflata, Seguenza, Figs. 10, 11, 12, 13. Lateral aspects; e, oral aspect.	. ×	60	406
,, 14, 15.—Bulimina rostrata, n. sp.,	. ×	80	408
,, 16, 17.—Bulimina williamsoniana, Brady, . Figs. 16 a , b , 17. Lateral aspects; c , oral aspect.	. ×	80	408
,, 18, 19.—Bulimina buchiana, d'Orbigny,	. ×	80	407
,, 20.—Pleurostomella brevis, Schwager,	. ×	40	411
,, $21.$ — $Pleurostomella\ rapa$, Gümbel,	. ×	60	411
,, 22, 23.—Pleurostomella alternans, Schwager, Fig. 22. a, Peripheral aspect; b, lateral aspect. Fig. 23. a, Peripheral aspect; b, lateral aspect.	. ×	70	412

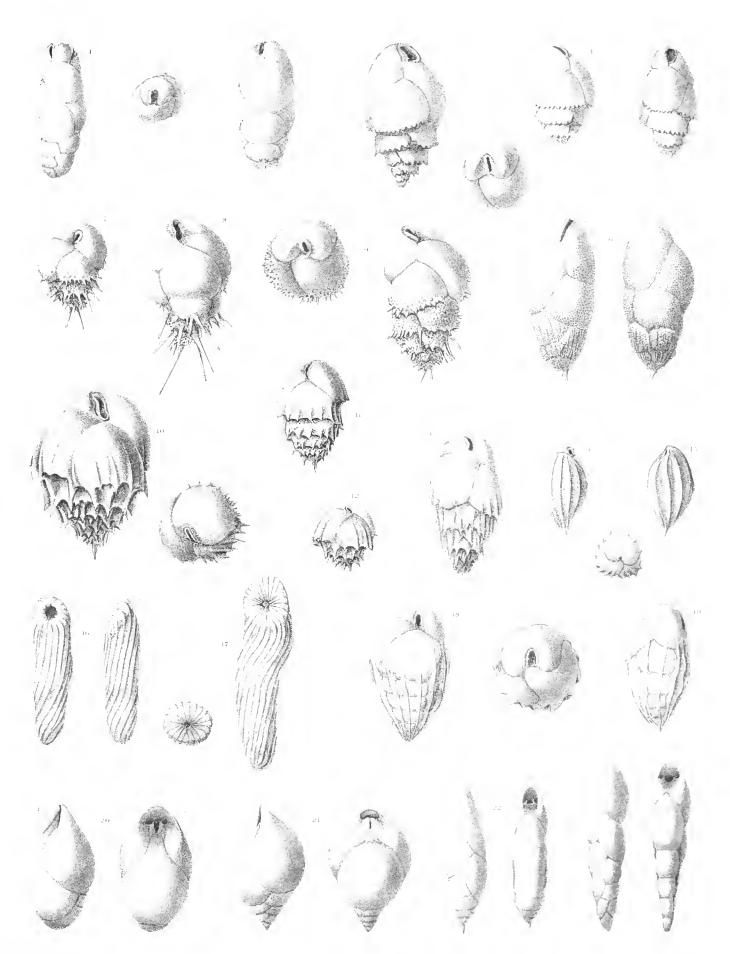


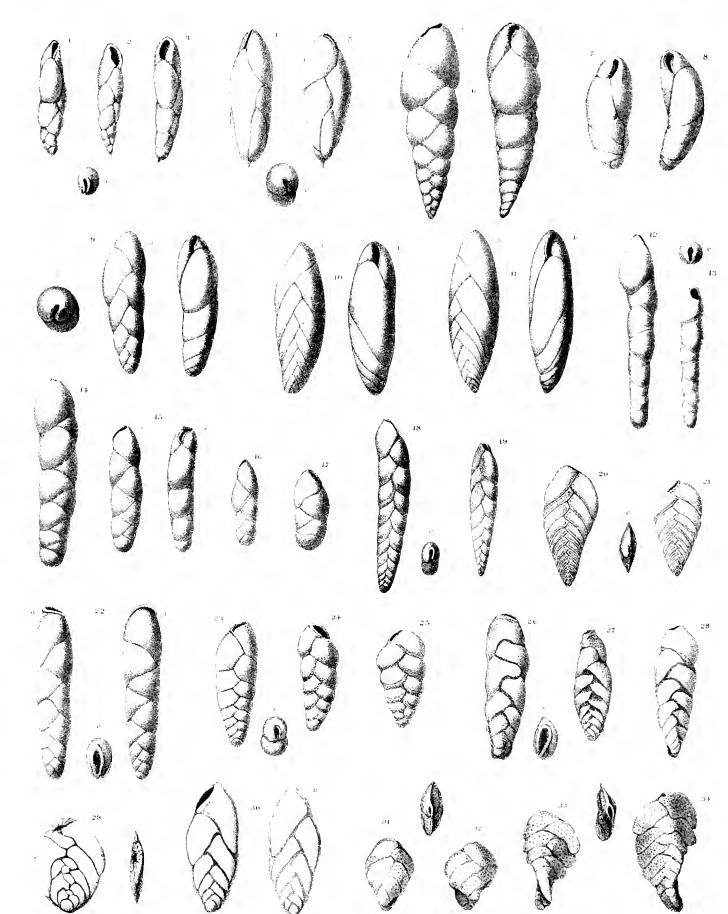


PLATE LII.

PLATE LII.

VIRGULINA.—PLEUROSTOMELLA.—BOLIVINA.

VIRGULINA.—I LEUROSTOMELLA.—I	DOLIVINA	•		
Figures 1-3.—Virgulina schreibersiana, Czjzek,		. ×	Diam. 70	$\frac{\mathrm{Page}}{414}$
Figs. 1, 2, 3, Lateral aspects; c , oral aspect.				
., 4, 5.—Virgulina panciloculata, n. sp., . a, b, Lateral aspects; c, oral aspect.		×	80	414
6.— Virgulina texturata, n. sp., a, Lateral aspect; b, peripheral aspect.		×	40	415
7–11Virgulina subsquamosa, Egger, .	•			415
Figs. 7-9. Various lateral aspects; c , oral as Figs. 10, 11. Various lateral aspects,	pect,	. ×	50 70	
,, 12, 13.—Pleurostomella subnodosa, Reuss, Figs. 12, 13. Lateral aspects; c, oral aspect.		×	50	412
" 14–17.— Virgulina subdepressa, n. sp., Various lateral aspects.		×	40	416
,, 18, 19.—Bolivina punctata, d'Orbigny, . Figs. 18, 19. Lateral aspect; c, oral aspect.		×	60	417
,, 20, 21.—Bolivina dilatata, Reuss, . Figs. 20, 21. Lateral aspect; c, oral aspect.		×	70	418
,, 22.—Bolivina porrecta, Brady, . a, b, Lateral aspects; c, oral aspect.		×	50	418
23–25.—Bolivina textilarioides, Rouss, . Figs. 23, 24, 25. Lateral aspects; c , oral asp	ect.	×	70	419
., 26–28.— Bolivina limbata, Brady, Figs. 26, 27, 28. Lateral aspects; c, oral asp	 peet.	×	50	419
., 29.—Bolivina tenuis, Brady, . Fig. 29. Lateral aspect; c , oral aspect.		×	80	419
,, 30.—Bolivina nitiala, n. sp.,		×	80	420
,. 31–34.— <i>Bolivina tortnosa</i> , Brady,		×	70	420



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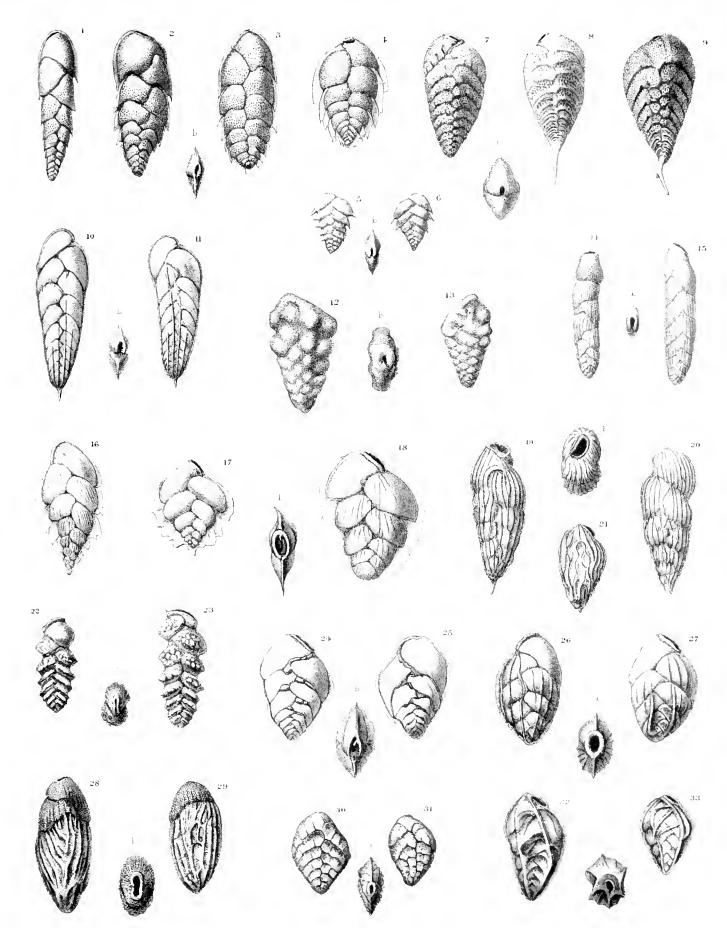


PLATE LIII.

PLATE LIII.

Bolivina.

	_ ;					
					Diam.	Page
Figure	1.—Bolivina beyrichi, Reuss, Lateral aspect.	•	•	×	50	422
• •	2-4.—Bolivina beyrichi, var. alata, Seguenza,					422
	Fig. 2. Lateral aspect,	•		×	50 C0	
	Figs. 3, 4. Lateral aspect; b , oral aspect,	•	•	×	6 0	
` '	5, 6.—Bolivina pygmæa, Brady, Figs. 5, 6. Lateral aspect; b, oral aspect.	•	•	×	60	421
,,	7–9.—Bolivina robusta, Brady,	•		×	60	421
	Figs. 7, 8, 9. Lateral aspects; b , oral aspect	t.				
., 1	0, 11.—Bolivina ænariensis, Costa, sp.,			×	50	423
, ,	Figs. 10, 11. Lateral aspect; h, oral aspect.					
1	2, 13.—Bolivina decussata, Brady,			×	60	423
,, 1	Figs. 12, 13. Lateral aspect; b, oral aspect.		•			0
1	4, 15.—Bolivina nobilis, Hantken, .			×	60	424
,, 1	Figs. 14, 15. Lateral aspect; b, oral aspect.		•	^	00	4-4
						104
,, 1	6-18.—Bolivina hantkeniana, Brady, Figs. 16, 17. Lateral aspect; b, oral aspect,		•	,	40	424
	Fig. 18. Lateral aspect,			×	60	
1				×	60	424
,, 1	9-21.—Bolivina karreriana, Brady, Figs. 19, 20, 21. Lateral aspects; b , oral as		•	^	00	4-4
					0.0	135
,, 2	2, 23.—Bolivina lobata, Brady, Figs. 22, 23. Lateral aspect; b, oral aspect.		•	×	80	425
	·					
,, 2	4, 25.—Bolivina schwageriana, Brady,	٠	•	×	50	425
	Figs. 24, 25. Lateral aspect; b , oral aspect.					
,, 2	6, 27.—Bolivina costata, d'Orbigny, .			×	60	426
	Figs. 26, 27. Lateral aspect; b , oral aspect.					
., .)	8, 29.—Bolivina amygdalæformis, Brady,			×	50	426
	Figs. 28, 29. Lateral aspect; b, oral aspect.					
3	30, 31.—Bolivina reticulata, Hantken, .			×	70	426
,, -	Figs. 30, 31. Lateral aspect; b , oral aspect.					
9	32, 33.—Bolivina subangularis, Brady, .			×	60	427
,, 0	Figs. 32, 33. Lateral aspect; b, oral aspect.		•		5.0	1~1
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BULIMINA, Par na



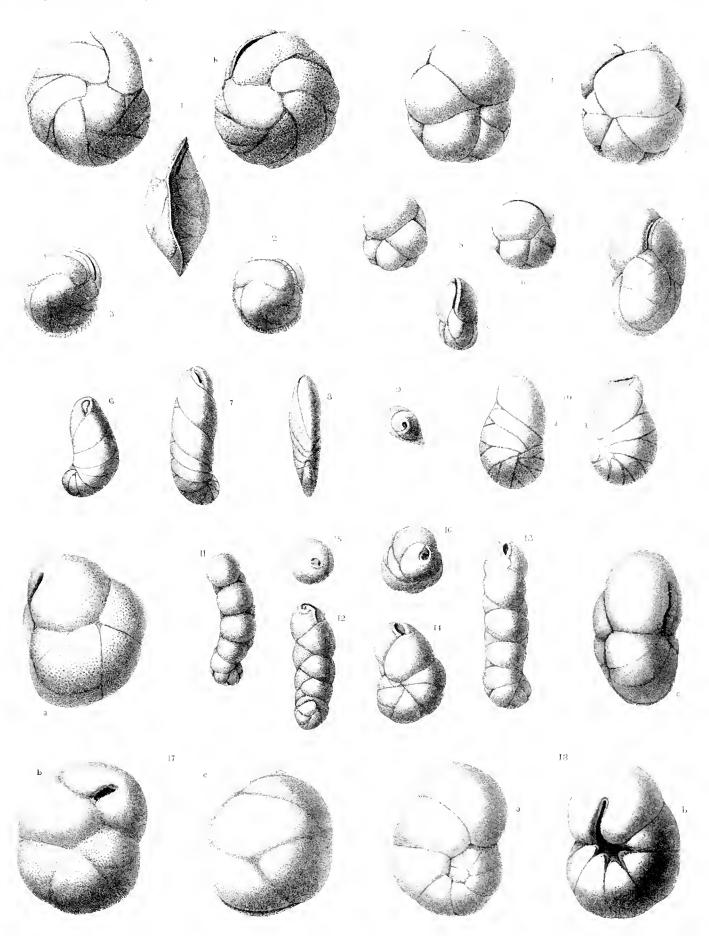


PLATE LIV.

PLATE LIV.

Cassidulina.—Bulimina.

		Diam.	Page
Figures 1–3.—Cassidulina lævigata, d'Orbigny,	×	7.5	428
Fig. 1. a , Superior lateral aspect; b , inferior aspect; c , peripheral aspect.			
Fig. 2. Specimen with carinate margin.			
Fig. 3. Specimen with serrate keel.			
" 4, 5.—Cassidulina crassa, d'Orbigny,	•		429
Fig. 4. a , Superior lateral aspect; b , inferior aspect; c ,	×	60	
peripheral aspect, Fig. 5. a, Superior lateral aspect; b, inferior aspect: c ,	^	.,,	
peripheral aspect,	×	75	
6–10.—Cassielulina braelyi, Norman,	×	7.5	431
Fig. 10. a, Superior lateral aspect; figs. 6, 7, 10 b, inferior aspect; fig. 8, peripheral aspect; fig. 9, oral aspect.			
., 11–16.—Cassidulina parkeriana, Brady,	×	75	432
Figs. 11–14. Lateral aspects; figs. 15, 16, oral aspects.			
., 17.—Cassidulina subglobosa, Brady,	×	60	430
a, Lateral aspect; b , c , ventral and dorsal peripheral aspects.			
18.—Bulimina contraria, Reuss, sp.,	×	60	409
a, Superior lateral aspect; b , inferior aspect; c , peripheral aspect.			



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CASSIDULINA



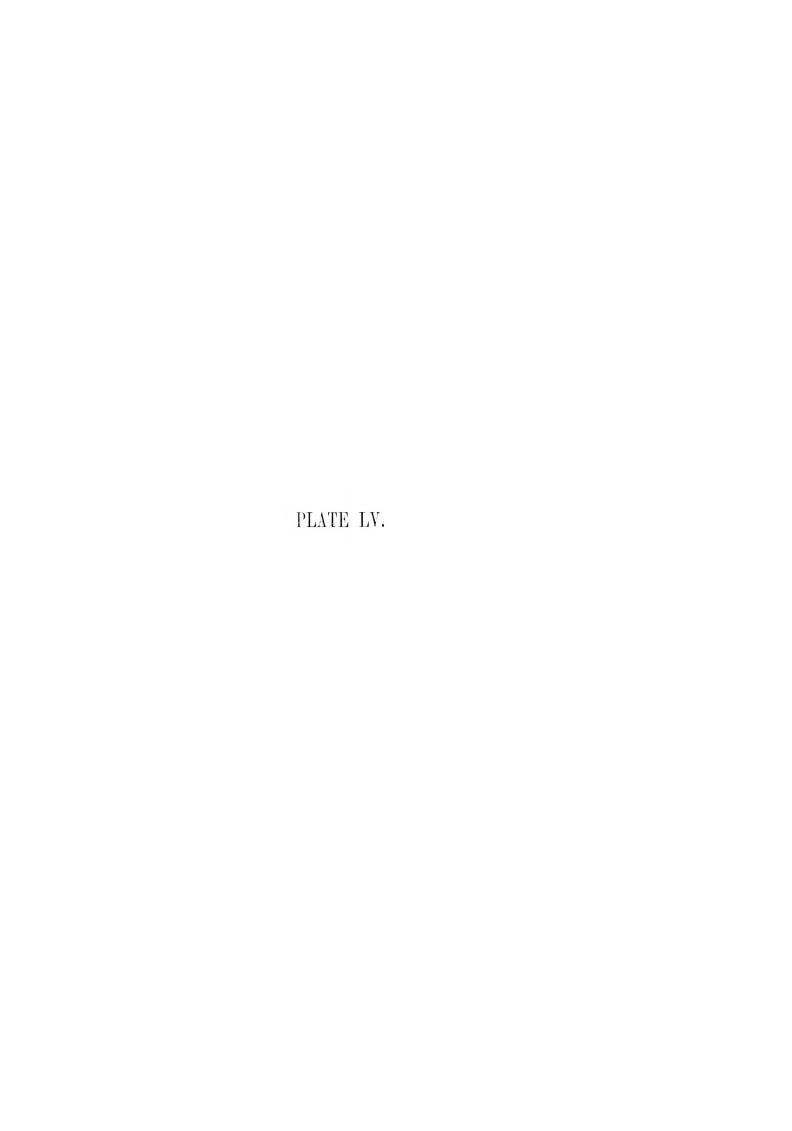


PLATE LV.

Ehrenbergina.—Chilostomella.—Allomorphina.			
		Diam.	\mathbf{P} age
Figure 1.—Ehrenbergina pupa, d'Orbigny, sp.,	×	75	433
a, Ventral lateral aspect; b , dorsal aspect.			
2-7.—Ehrenbergina serrata, Reuss,			434
Figs. 2 a, 6. Ventral lateral aspects; figs. 2 b, 7, dorsal aspects,	×	60	
Fig. 3. Ventral aspect; figs. 4, 5, oral aspects,	×	75	
,, 8–11.—Ehrenbergina hystrix, Brady,	×	60	434
Figs. 8, 9. Ventral aspect; figs. 10, 11, dorsal aspect.			
,. 12–23.—Chilostomella ovoidea, Reuss,	,		436
 Figs. 12-18. Lateral aspects; figs. 19, 20, oral aspects, Figs. 21, 22. Small specimens mounted in Canada balsam and viewed by transmitted light, showing the arrange- 	×	50	
ment of the chambers, Fig. 23. Specimen with part of the wall of the final segment	×	70	
removed,	×	50	
" 24–26.—Allomorphina trigonula, Reuss			438
Figs. 24, 25. Lateral aspects, Fig. 26. Specimen mounted in Canada balsam and viewed	×	60	
by transmitted light, showing the arrangement of the	V	100	

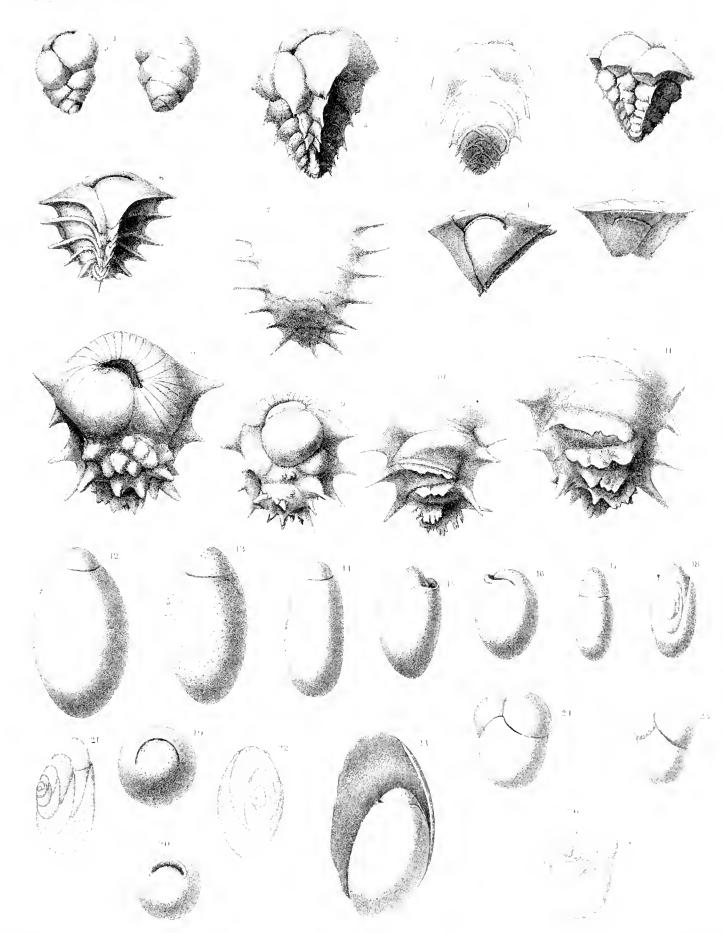




PLATE LVI.

PLATE LVI.

Lagena.

(a, Lateral aspect; b, oral aspect.)

Figures 1–3.— <i>Lugena globosa</i> , Montagu, sp., .		×	Diam. 60–75	Page 452
" 4.—Lagena apianlata, Reuss, sp., .	•	×	7 5	453
,, 5.— $Lagena\ orum$, Ehrenberg, sp.,		×	75	454
,, 6.—Lagena botelliformis, Brady, .		×	75	454
,, 7–14.— <i>Lagena lavis</i> , Montagu, sp., .		×	75	455
,, 15–18.— <i>Lagena apiculata</i> , Reuss, sp., .		×	75	453
., 19–28.—Lagena gracillima, Seguenza, sp.,		×	60	456
29.—Lagena clongata, Ehrenberg, sp.,		×	60	457
30.—Lagena lævis. Montagu, sp. (var.),		×	75	455
,, 31, 32.— <i>Lagena truncata</i> , n. sp., .		×	75	457
,, 33–36.—Lagena longispina, Brady, globular form. Figs. 33–35. \times 75;—fig. 36,		×	50	454

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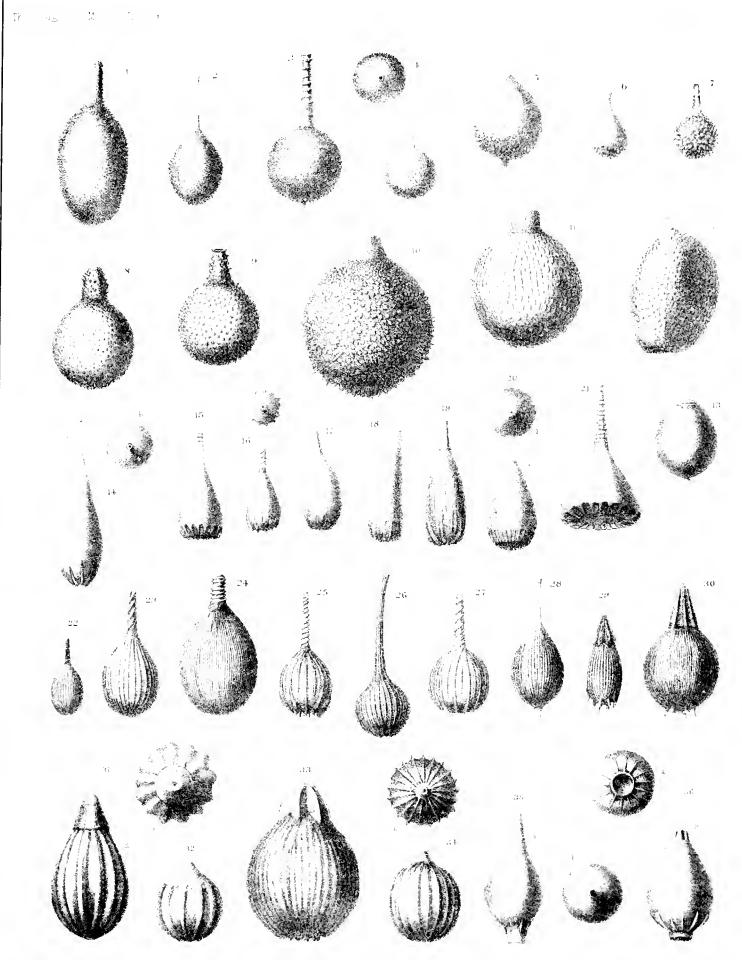
PLATE LVII.

PLATE LVII.

LAGENA.

(a, Lateral aspect; b, or al aspect.)

1 , , , , , , , , , , , , , , , , , , ,				
			Diam.	Page
Figures 1–4.—Lagena hispida, Reuss,		×	60	459
" 5.—Lagena ampulla-distoma, Rymer Jones, .		×	60	458
., 6 (?) 7–12.—Lagena aspera, Reuss,				457
Figs. 6, $7. \times 75$; figs. 8, 9,		×	60	
Figs. 10, 11,		×	45	
Fig. 12. Compressed ecto-ento-solenian specimen,	•	×	60	
" 13.— <i>Lagena lineata</i> . Williamson, sp.,	٠	×	60	461
" 14, 16, 17, (and 18?).—Lagena semistriata, Williamson,		×	75	465
,, 15, 21.—Lagena crenata, Parker and Jones		×	75	467
,, 20.—Intermediate form, resembling Lagena crenata				
and Lagena semistriata,		×	75	465
,, 19, 22, 24, 28, 29, 30.—Lagena striata, d'Orbigny, sp.,		×	60	460
,, 23, 26, 33, 34.—Lagena sulcata, Walker and Jacob,		×	60	462
" 25, 27.—Lagena sulcata, var. interrupta, Williamson.		×	60	463
., 31. 32.—Lagena acuticosta, Reuss		×	60-75	464
,, 35, 36.—Lagena stelligera. Brady		×	7 5	466



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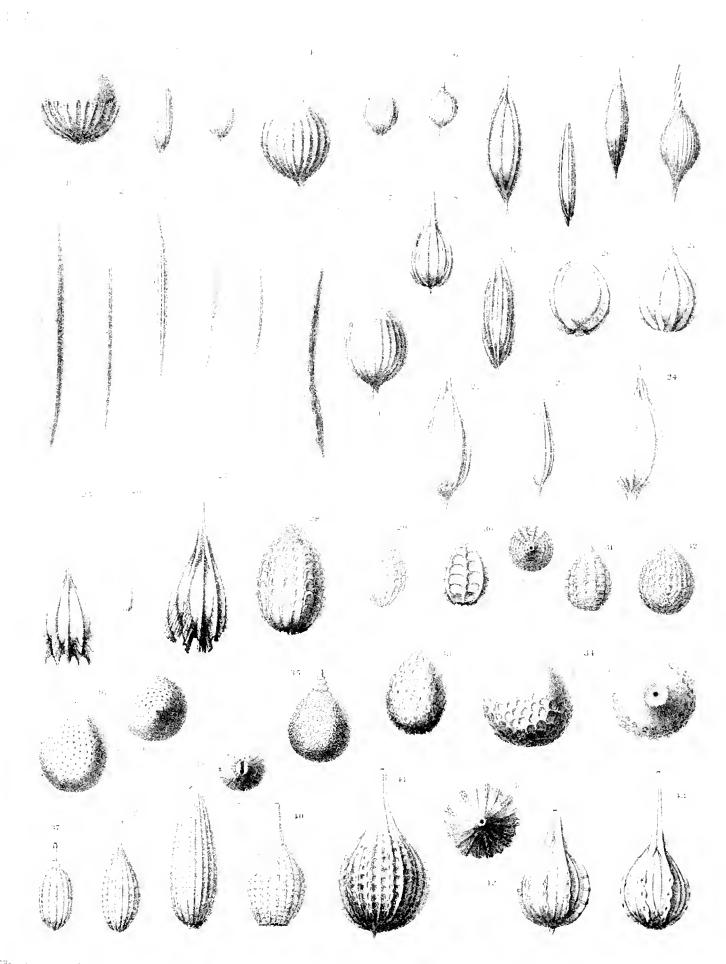
PLATE LVIII.

PLATE LVIII.

LAGENA.

(a, Lateral aspect; b, oral aspect.)

Figure 1.—Lagena exsculpta, Brady,	67 64 62
., 2, 3, 7–10.—Lagena gracilis, Williamson,	54 52 53
" 4, 17 (?), 18.—Apiculate forms of Lagena sulcata, Walker and Jacob,	52 53
Jacob,	53 51
Williamson,	31
16 Laugua dintana manggulatawa Pantan and Tanaga y 10 45	
16.—Lauena distoma-margaritetera Parker and Jones × 10 45	18
,, 10.—Layena assoma-margarayera, 1 arker and 50nes, . x 40 4.	
,, 19, 22–24.—Lagena gracilis, Williamson, \times 75 46	1
,, 20 (?), 21.—Lagena acuticosta, Reuss, \times 75 46	14
,, 25, 26 (?), 27.—Lagena plumigera, Brady, × 75 46	5
,, 28–31.— <i>Lugena squamosa</i> , Montagu, sp., × 75 47	1
,, 32, 33.—Lagena hexagona, Williamson, sp., \times 75 47	2
., 34.—Lagena seminuda, n. sp., × 60 47	2
,, 35.—Lagena favoso-punctata, Brady, \times 75 47	'3
., 36.—Lagena hertwigiana, Brady, \times 75 47	.0
., 37, 40.—Lagena striatopunctata, Parker and Jones, . \times 75 46	8
,, 38, 39.— <i>Lagena feildeniana</i> , Brady, × 75 46	9
,, 41.—Lagena torquata, Brady, \times 75 46	9
,, 42, 43.—Lagena desmophora, Rymer Jones, \times 75 46	8





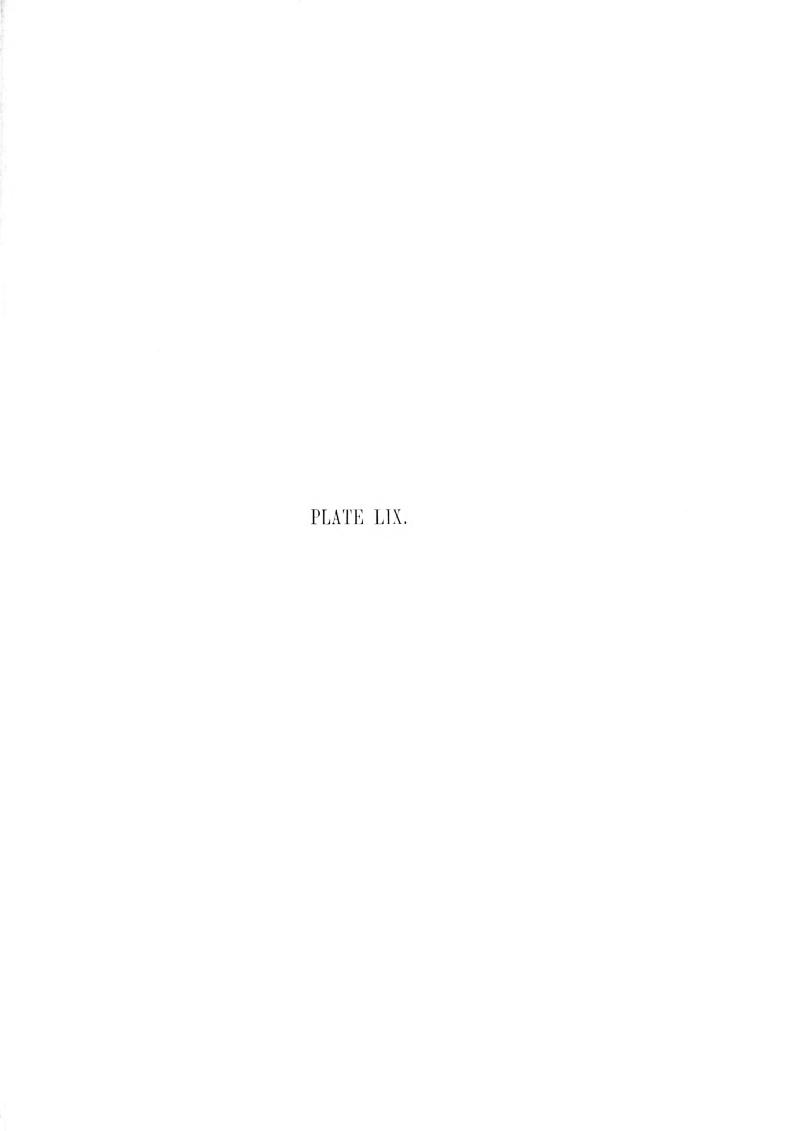
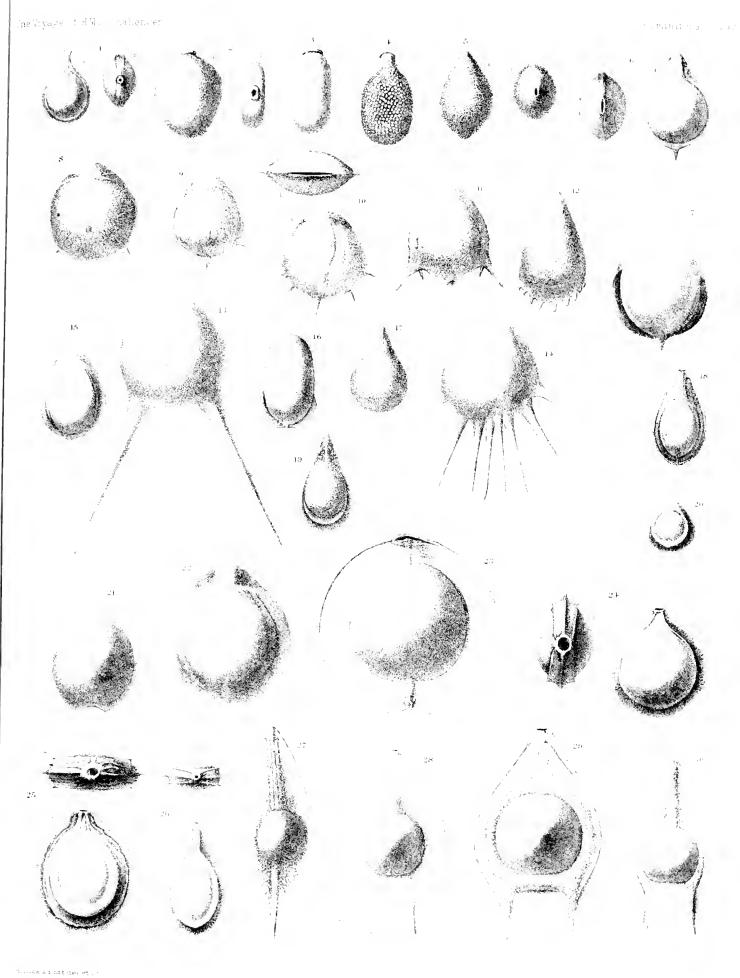


PLATE LIX.

Lagena.

(a, Lateral aspect; b, oral aspect.)

	(", "	1 - 1 /			T. 1	TD.
Figure 1.—Lagen	a orbignyana, Seguenza, sp., .	•		×	Diam. 75	Page 484
,, 2, 5.—Lagen	a hispida, Reuss, compressed vario	ety,		×	75	459
,, 3.— <i>Lagen</i>	a quadrata, Williamson, sp., .			×	75	475
" 4.—Lagen	a favoso-punctata, Brady; compre	ssed forn	n	×	7 5	473
,, 6.— <i>Lagen</i>	a acuta, Reuss, sp. (not typical),			×	60	474
" 7.—Lagen	a quadricostulata, Reuss (?),	•		×	60	486
,,	na staphyllearea, Schwager, sp. Fig. 8. × 45 diameters; figs. 9–11,			×	75	474
,, 12.—Lager	na unguiculata, Brady, .			×	60	474
	a longispina, Brady; compressed v Fig. 13. The spines of this specimen are he			×	30	454
" 15.— <i>Lagen</i>	a quadricostulata, Reuss, .	•		×	75	486
	a quadrata, Williamson sp., Partially carinate specimen.			×	75	475
,, 17, 19.—Lagen	a marginata, var. semimarginata,	, Reuss,	•	×	6075	477
,, 18, 20.— <i>Lagen</i>	<i>a orbignyana</i> , Seguenza, sp., varie	ties,		×	75-90	484
" 21–23.— <i>Lagen</i>	a marginata, Walker and Boys. Fig. 21. \times 45; fig. 22, \times 40; fig. 23,			×	25	476
	<i>a orbignyana</i> , Seguenza, sp. Fig. 24. × 45; fig. 25, × 30; fig. 26,			×	60	484
,, 27.—Lagen	a siliqua, Rymer Jones, .			×	45	478
" 28-30.— <i>Lagen</i>	a seminiformis, Schwager, .	•		×	45-60	478



LAGENA.



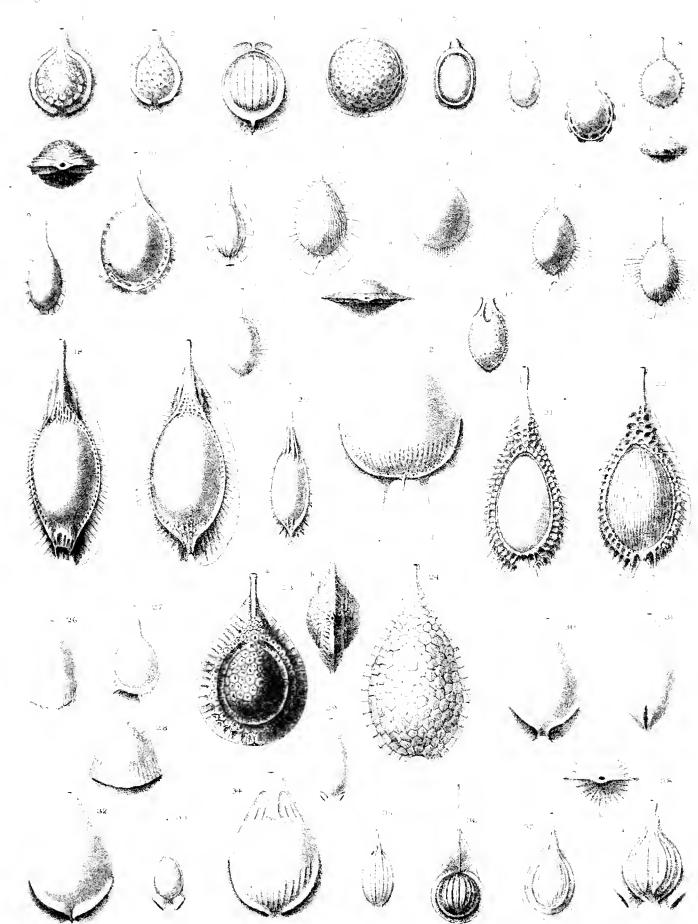
PLATE LX.

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PLATE LX.

Lagena.

(a , Lateral aspect; b , oral aspect.)			
Figures 1, 2, 3 (?).—Lagena castrensis, Schwager,	×	Diam. 75	Page 48 5
., 4.—Lagena clathrata, n. sp.,	×	75	485
,, 5.—Lugena quadrata, Williamson, sp. (variety), .	×	75	475
,, 6, 7, 9, 12–14.—Lagena lagenoides, Williamson, sp., .	×	60-75	479
., 11, 15, 16.—Lagena lagenoides, var. tenvistriata, nov., .	×	60-75	479
,, 8 (!), 10, 17 (?), 18–20.— <i>Lagena formosa</i> , Schwager. Fig. 8. × 75; figs. 10, 20, × 60; fig. 17, × 90; figs. 18, 19,	×	50	480
,, 21.—Lagena formosa, var. favosa, Brady,	×	60	480
22.—Lagena formosa, var. comata, Brady	×	75	480
23.—Lagena squamoso-alata, Brady,	×	60	481
24.—Lagena squamoso-marginata, Parker and Jones, .	×	60	481
., 25.—Lagena alveolata, var. caudigera, Brady,	×	40	488
,, 26–28.—Lagena fimbriata, Brady,	×	60	486
., 29, 31 (?), 33.— <i>Lagena auriculata</i> , Brady,	×	60	487
., 30, 32.— <i>Lagena alveolata</i> , n. sp.,	×	60	487
,, 34.—Lagena alveolata, var. substriata, Brady,	×	60	488
,, 35–37.—Winged varieties of $Lagena$ sulcata, Walker and Jacob,	×	75	462
,, 38.—Lagena aurienlata, var. costata, Brady,	×	60	487



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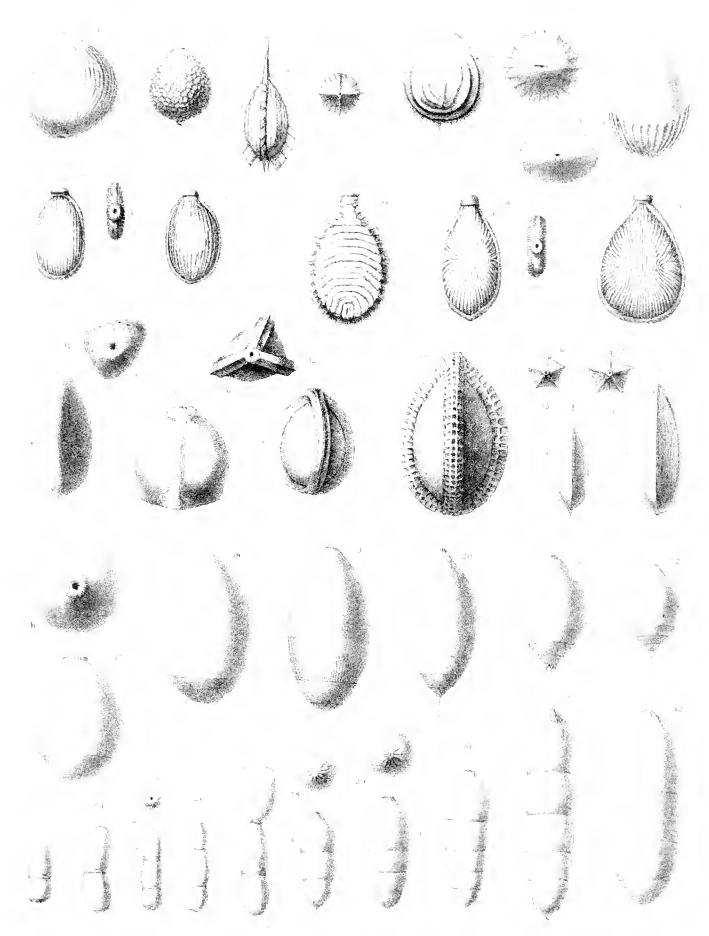
PLATE LXI.

Lagena.—Nodosaria.

(a, Lateral aspect ; b, oral aspect.)

Figure	1.—Lugena variata, Brady,	Diam. × 75	$^{\rm Page}_{461}$
,,	2.—Lugena favoso-punctata, Brady,	× 100	473
,,	3.—Lagena quadralata, Brady,	× 100	464
,,	4.—Lagena multicosta, Karrer, sp.,	× 75	466
11	5.—Lagena exsculpta, Brady; compressed form,	× 75	467
,,	6, 7.—Lagena wrightiana, Brady,	× 90	482
٠,	8, 9.—Lagena radiato-marginata, Parker and Jones,	× 90	481
, ,	10.—Lagena schulzeana, Brady,	× 90	482
,,	11.—Lagena trigono-oblonga, Seguenza and Siddall,	× 75	475
., 1	2, 13.—Lagena trigono-marginata, Parker and Jones,	× 100	482
4.5	$14Lagena\ trigono-ornata,\ Brady,$	× 60	483
,,	15, 16.—Lagena quinquelatera, Brady,	× 100	484
٠,	17–19.—Nodosaria (Glandulina), rotundata, Reuss,	× 30	491
-,	20-22.—Nodosaria (Glandulina), lævigata, d'Orbigny,	× 30	490
,,	23–27.—Nodosaria calomorpha, Reuss,	× 50	497
,,	28–31.—Nodosavia vadicula, Linné, sp., .	× 30	495
,,	32.—Nodosaria (Glandulina), wqualis, Reuss, sp.,	× 30	492





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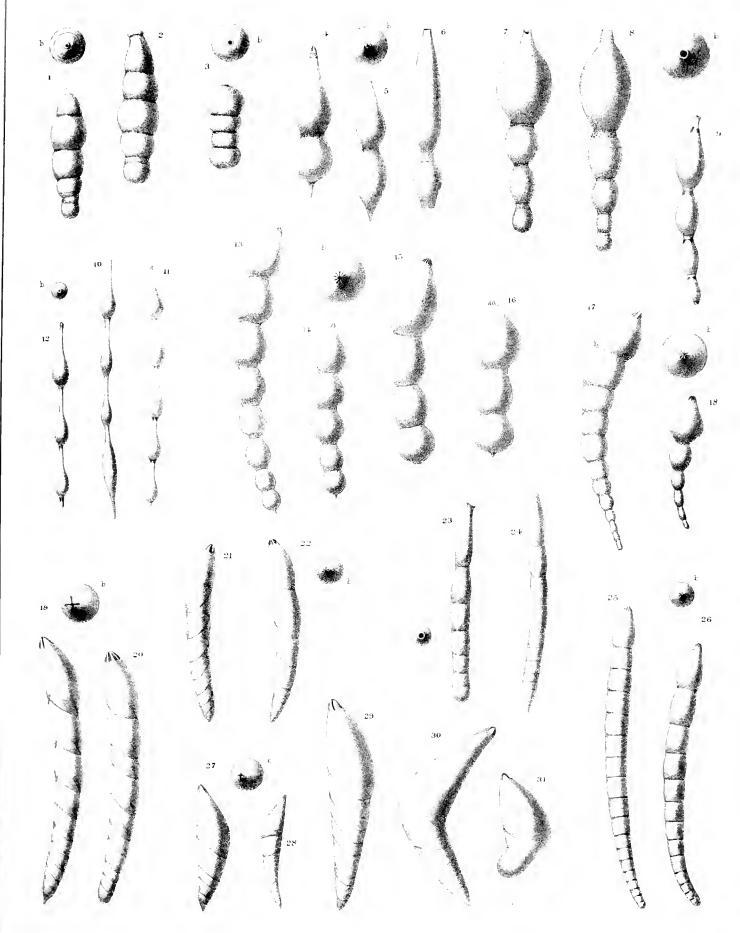
PLATE LXII.

(zool. Chall. exp.—part xxii.—1884.)—Y.

PLATE LXII.

Nodosaria.

\ 1 /		T.	**
Figures 1, 2.—Nodosaria radicula, var. annulata, Terquem and		Diam,	Page
Berthelin,	×	50	496
" 3.—Nodosaria radicula, var. ambigua, Neugeboren, .	×	50	496
,, 4, 5 (and 6?).—Nodosaria simplex, Silvestri,	×	35-50	496
., 7, 8.—Nodosaria subtertennata, Schwager	×	50	507
., 9.—Nodosaria inflexa, Reuss,	×	30	498
., 10-12.—Nodosaria pyrula, d'Orbigny,	×	30-40	497
" 13–16.— <i>Nodosaria soluta</i> , Reuss,	×	12	503
., 17, 18.—Nodosaria farcimen, Soldani, sp. (not typical: see			
woodcuts, p. 499).	×	15	498
., 19-22.—Nodosaria communis, d'Orbigny.	×	35-50	504
23, 24.—Nodosaria consobrina, d'Orbigny, sp.,	×	50	501
25, 26.—Nadosaria consobrina, var. emaciata, Reuss	×	15	502
" 27-29.—Nodosaria mucronata, Neugeboren, sp.,	×	50	506
,, 30, 31.—Monstrous specimens of the same,	×	40	



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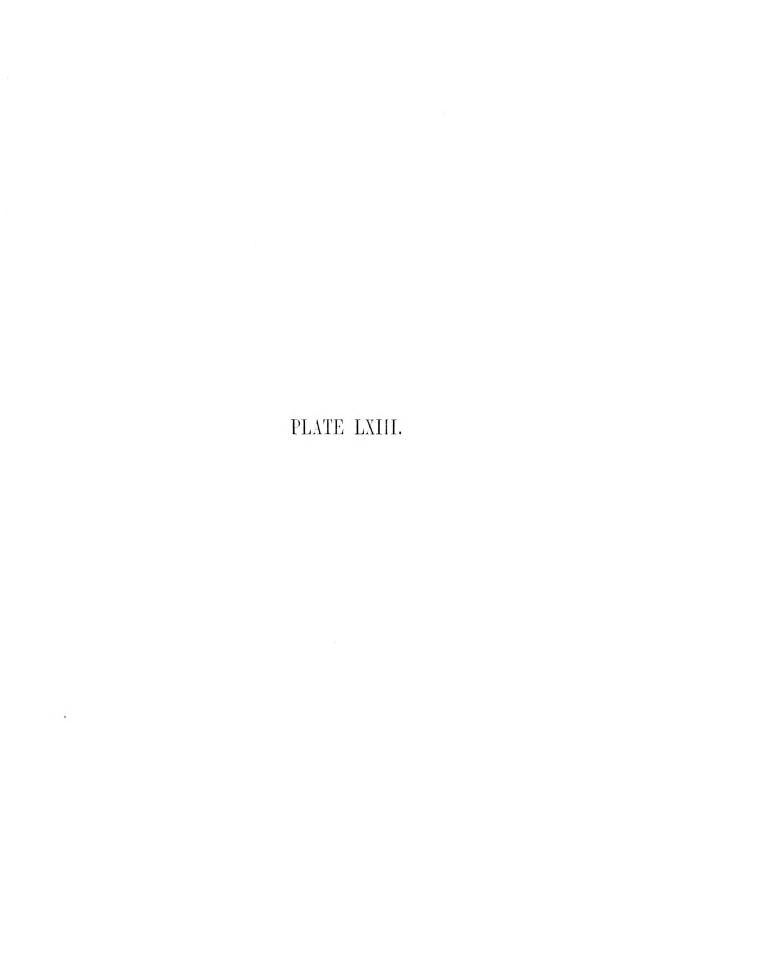


PLATE LXIII.

Nodosaria.

$(b, \Theta \text{ral aspect.})$

	(,			
Figure	1.—Nodosaria roemeri, Neugeboren, sp	. ×	Diam. 20	Page 505
••	2.—Nodosaria plebeia, Reuss,	. ×	20	502
4.7 *):	-5.—Nodosaria filiformis, d'Orbigny, sp., Figs. 3. × 10 ; figs. 4, 5,	. ×	20	500
••	6.—Nodosaria (Glandulina) armata. Reuss	. ×	50	494
11	7.—Nodosavia retvorsa, Reuss, sp.,	. ×	50	507
8	, 9.—Nodosaria (!) abyssorum. Brady	. ×	20	504
., 10.	. 11.—Young or arrested specimens of <i>Nodosaria hispida</i> d'Orbigny, or <i>Nodosaria setosa</i> , Schwager (<i>Nodosaria papillosa</i> , Silvestri?)	*	75	508
,, 12	-16.—Nodosaria hispida, d'Orbigny,	×	25	507
	17.—Nodosaria verruculosa, Neugeboren, .	. ×	50	509
••	18.—A portion of the shell more highly magnified,	. ×	100	
,, 19	–21.—Nodosaria hispida, var. sublineata, nov.,	. ×	35	508
	22.—A portion of the shell more highly magnified,	. ×	100	
,. 23	-26.—Nodosaria costulata, Reuss,	. ×	15	515
7.6	27.—A portion of the shell more highly magnified,	. ×	30	
,, 28	31.—Nodosaria scalaris, Batsch, sp.,	. ×	45 - 50	510
., 32	–33.—Nodosaria catenulata, n. sp.,	. ×	40	515
••	34Λ portion of the shell more highly magnified,	. ×	100	
1.4	35.—Nodosaria vertebralis, Batsch, sp.,	. ×	40	514



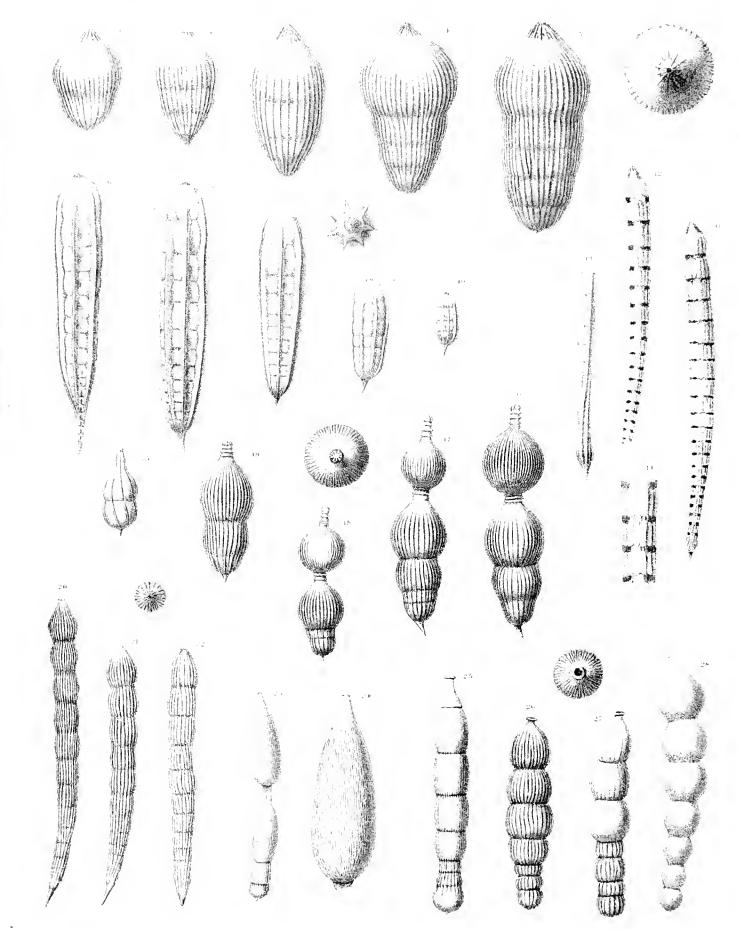
PLATE LXIV.

(200L. CHALL. EXP - PART XXII. -1884.) - Y.

PLATE LXIV.

Nodosaria.

\ '\ 1 /				
Figures 1-5.—Nodosaria comata, Batsch, sp., Specimens in various stages of growth.	4	×	Diam. 50	Page 509
" 6–10.—Nodosaria raphanus, Linné, sp.,		×	15	512
" 11–13.—Nodosaria vertebralis, Batsch, sp.,		×	15-18	514
., 14.—A portion of a specimen more highly magnified,		×	30	
,. 15.—Nodosaria proxima, Silvestri, .		×	60	511
,, 16–19.—Nodosaria scalaris, var. separans, nov.,		×	40	511
" 20–22.—Nodosaria obliqua, Linné, sp.,		×	16	513
,, 23.—Nodosaria subcanaliculata, Neugeboren (var.),		×	40	512
,. 24.—A portion of the same more highly magnified,		×	80	
" 25–27.—Nodosaria perversa, Schwager,		×	50-60	512
., 28.—Nodosaria soluta, Reuss,—faintly striate specimen,		×	15	503



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NODOSARIA



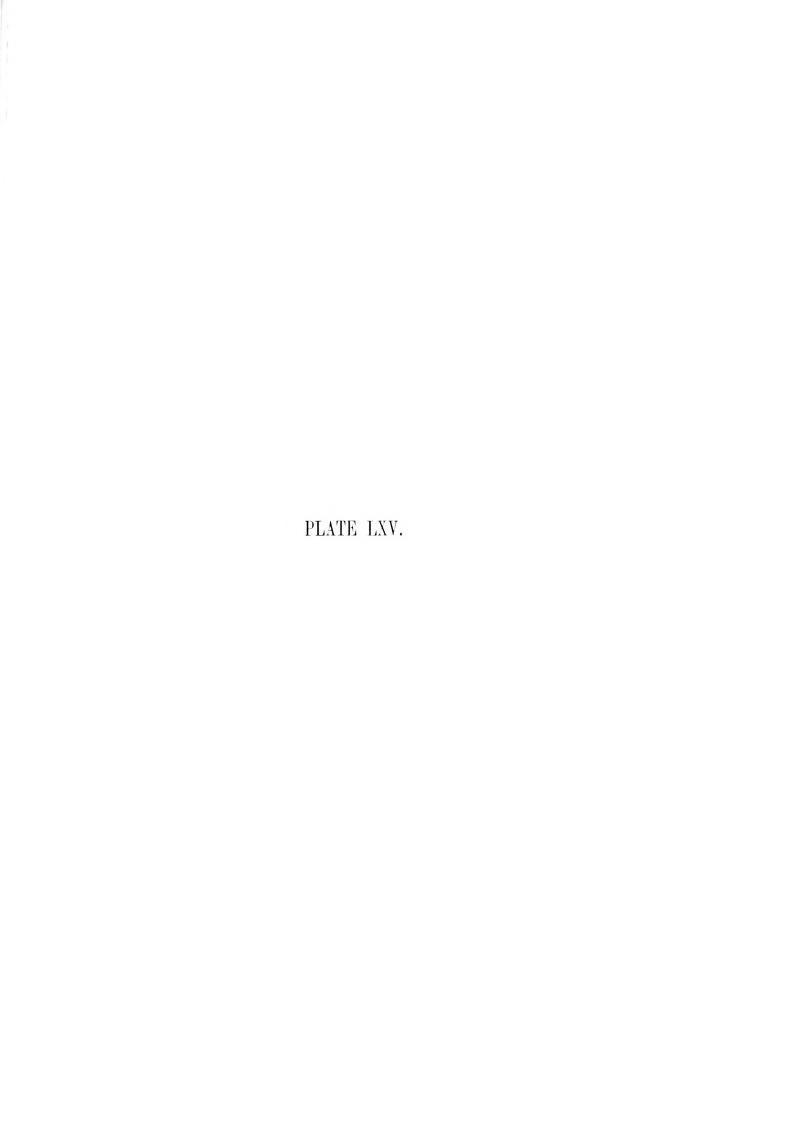
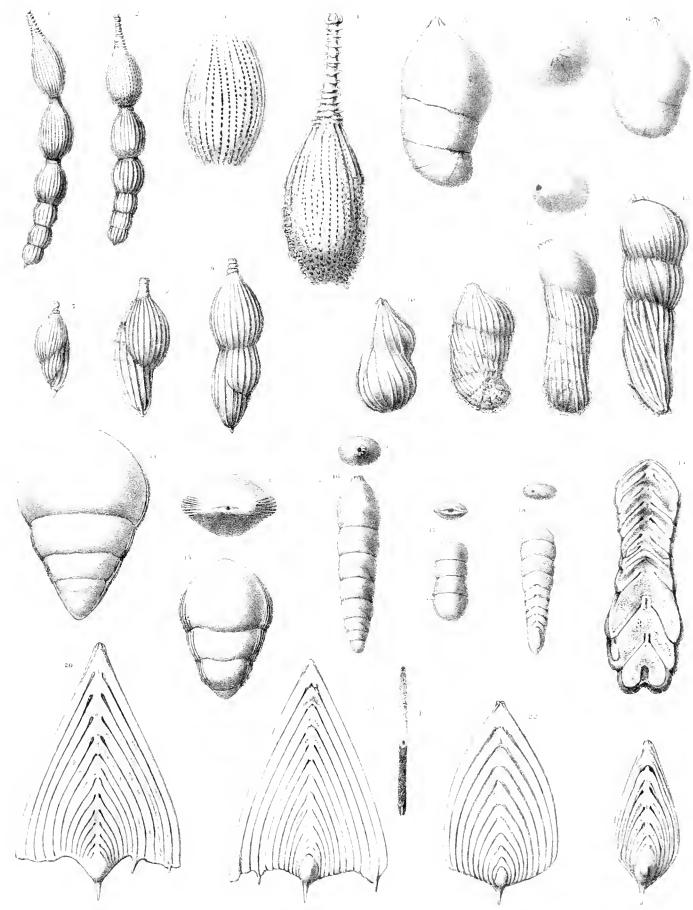


PLATE LXV.

Nodosaria.—Marginulina.—Lingulina.—Frondicularia.

			Diam.	Page
Figures 1, 2.—Nodosaria intercellularis, Brady,		×	40	515
3, 4.—Portions of the shell more highly magnified,		×	100	
5, 6.—Marginulina glabra, d'Orbigny,	-	×	30	527
., 7-9.—Amphicoryne falx, Jones and Parker, sp.,		×	50-60	556
,, 10–13.— <i>Marginulina costata</i> , Batsch, sp., Fig. 10. × 40; fig. 11, × 30; figs. 12, 13, .		·	20	528
,. 14, 15.—Lingulina carinata, var. seminuda, Hantken,		×	12	518
., 16, 17.—Lingulina carinata, d'Orbigny		×	90	517
18.—Frondicularia spathulata, Brady.		×	60	519
19.—Frondicularia compta, Brady,		×	60	520
,, 20–23.—Frondicularia alata, d'Orbigny, .				522
Specimens in different stages of growth. Figs. $20-22.\times15$;—fig. 23, young shell,		×	20	



NODOSARIA MARGINULINA LINGULINA FPONDICULAFIA.



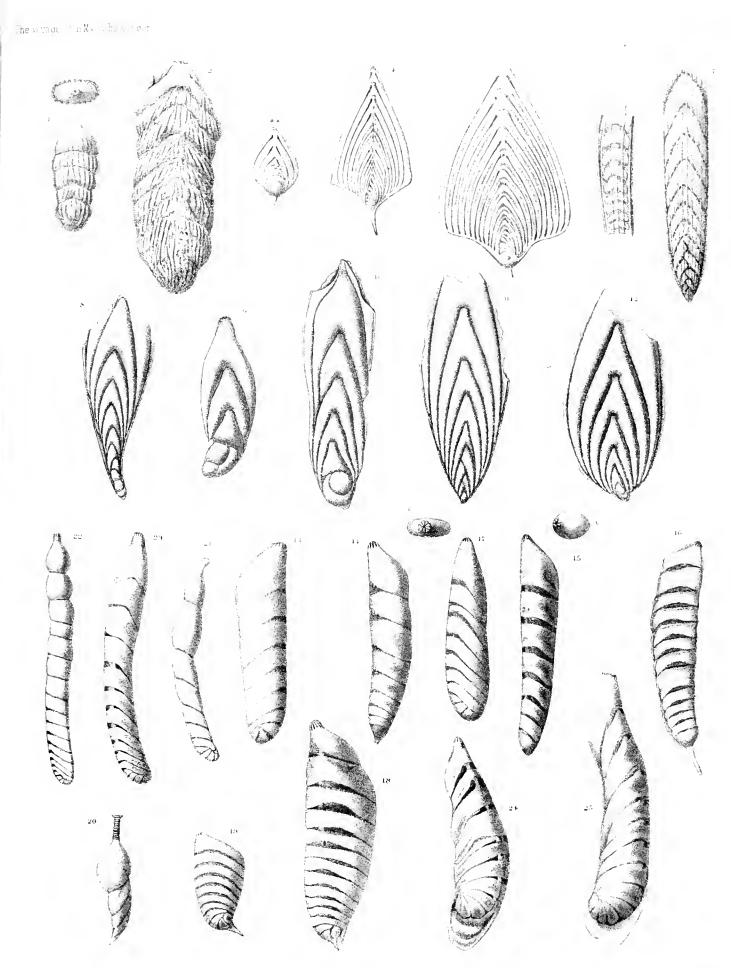
PLATE LXVI.

(ZOOL. CHALL, EXP.—PART XXII.—1884.)—Y.

PLATE LXVI.

Frondicularia.—Vaginulina.—Cristellaria.

			Diam.	Page
Figures 1, 2.—Frondicularia robusta, n. sp., Fig. 1b, Oral aspect. Fig. 1. \times 75; fig. 2, .			17	523
3–5.—Frondicularia alata, d'Orbigny (Flabelline variety),		×	15-20	522
., 6, 7.—Frondicularia interrupta, Karrer,		×	60	528
., 8–12.—Frondicularia inæqualis, Costa, . Figs. 8–11. \times 60 ; fig. 12,		×	45	521
., 13–15.—Vaginulina legumen, Linné, sp., Fig. 15b, Oral aspect.		×	30	530
., 16.—Vaginulina margaritifera, Batsch, sp., .		×	13	532
., 17.—Cristellaria obtusata, Reuss, b, Oral aspect.	•	×	25	530
., 18, 19.—Vaginulina bruckenthali, Neugenboren, .		×	17	531
20.—Intermediate specimen with Vaginuline com- mencement, and final Nodosarian chamber,		×	60	
., 21–23.—Cristellaria tenuis, Bornemann, sp.: Figs. 21. × 35; figs. 22, 23,		х	20	535
., 24, 25.—Cristellaria obtusata, var. subalata, nov.,		×	20	53(



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FRONDICULARIA. Flabeilma, ...VAGINULINA__ CRISTELLARIA



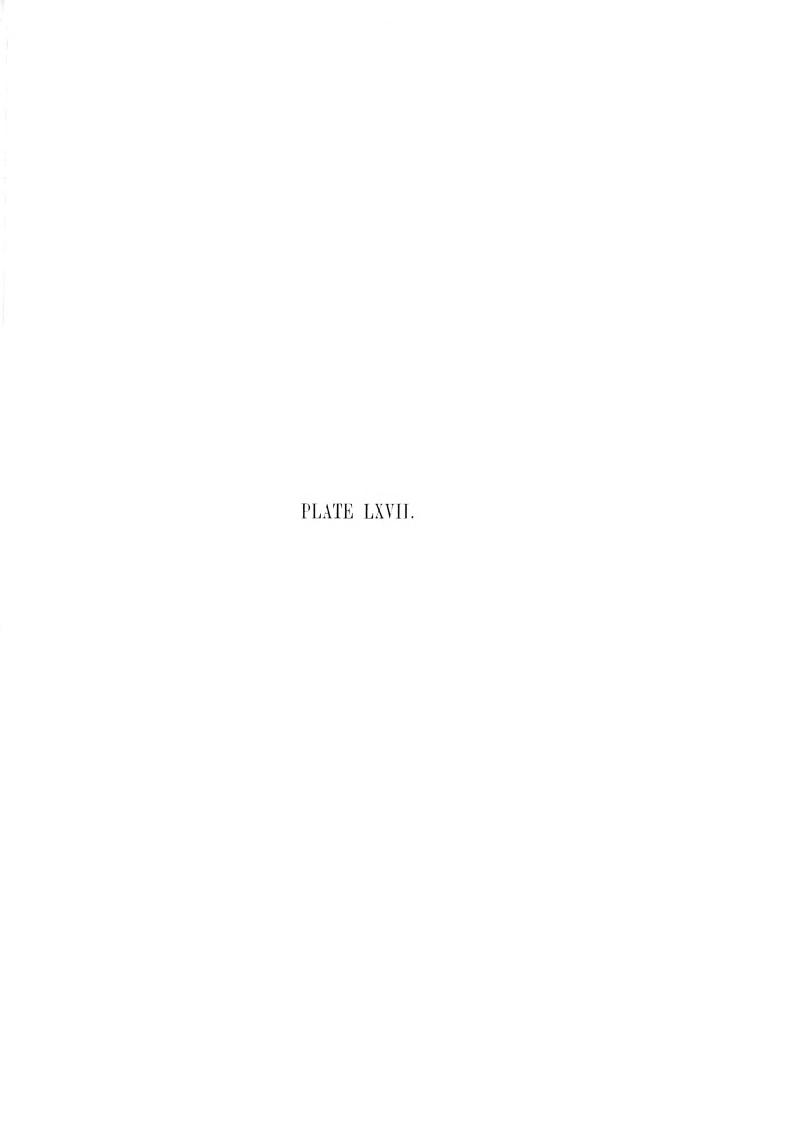
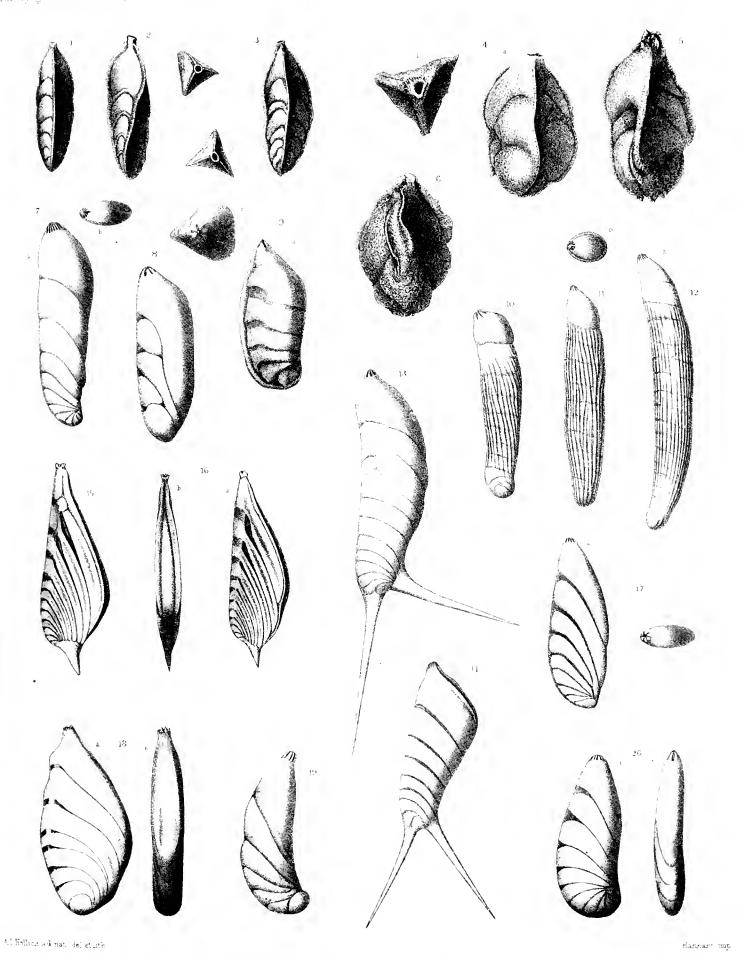


PLATE LXVII.

Rhaedogonium.—Vaginulina.—Cristellaria.

IMABDOGUNIUM.— VAGINULINA.—ORISTELLARIA.			
Figures 1–3.—Rhabdogonium tricarinatum, d'Orbigny, sp., $b, b, \text{Oral aspects.} \label{eq:bound}$	×	Diam. 75	Page 525
., 4-6.—Rhabdogonium minutum, Reuss,	×	75	526
., 7.—Cristellaria schloenbachi, Reuss,	×	25	539
" 8.—Anomalous specimen, probably of the same species,	×	60	
., 9.—Cristellaria italica, var. volpicellii, Costa, .	×	50	545
,. 10–12.— Vaginulina linearis, Montagu, sp., b , Oral aspect.	×	15	532
., 13, 14.—Vaginulina spinigera, Brady,	×	17	531
,, 15, 16.—Vaginulina patens, n. sp., Figs. 15, 16a. Lateral aspects; b, front peripheral aspect.	×	75	533
., $17, 19, 20$.—Cristellaria crepidula, Fichtel and Moll, sp., .			542
Fig. 17. a , Lateral aspect; b , oral aspect, Figs. 19, 20 a . Lateral aspect; b , front peripheral aspect,	×	60 50	
,, 18.—Cristellaria lata, Cornuel, sp.,	×	25	539



RHABDOCONIUM-VAGINULINA-CRISTELLARIA



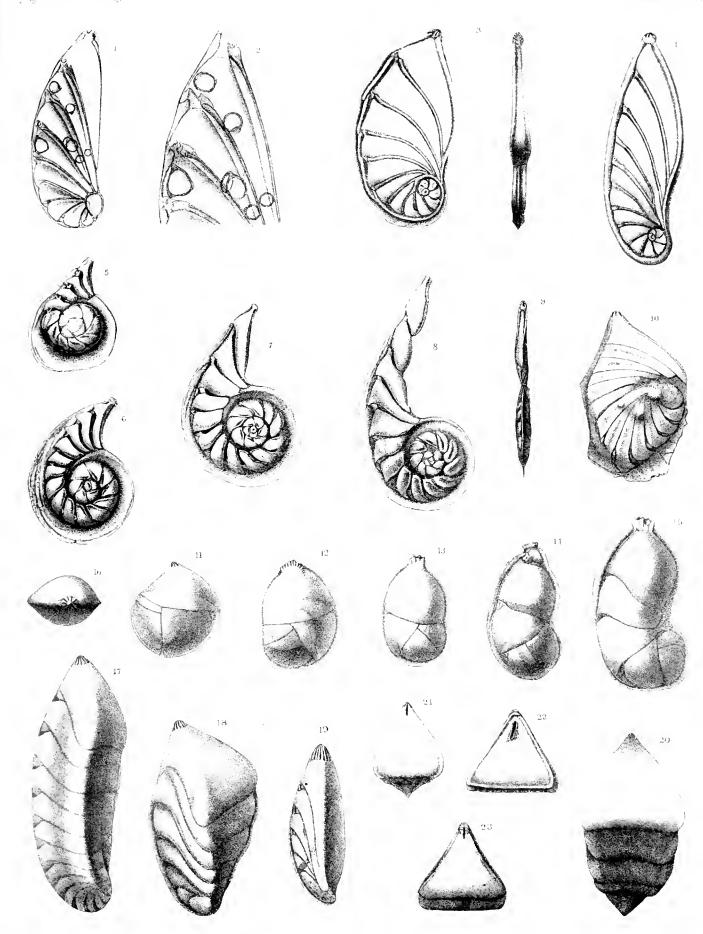
PLATE LXVIII.

(zool chall exp.—part xxii.—1884.)—Y.

PLATE LXVIII.

Cristellaria.

Figure 1.—Cristellaria crepidula, Fichtel and Moll, sp.,	×	Diam. 50	Page 542
Specimen mounted in Canada balsam; with young shells in some of the later chambers.			
2.—Portion of the same, more highly magnified,	×	100	
3, 4.—Cristellaria tricarmella, Reuss, b, Front peripheral aspect.	×	50	540
,, 5-9.—Cristellaria siddalliana, Brady, . Figs. 5-8. Lateral aspect; fig. 9, front peripheral aspect.	×	35	541
., 10.—Cristellaria cassis, Fichtel and Moll, sp.,	×	30	552
11-16.—Cristellaria variabilis, Reuss,	×	50	541
17, 18, 20-23.—Cristellaria italica, Defrance, sp Figs. 17, 18. Lateral aspect; fig. 20, front peripheral aspect; figs. 21-23, oral aspect.	×	15-20	544
19.—Cristellaria latifrons, n. sp. (see also Pl. CXIII. fig. 11).	×	20	544



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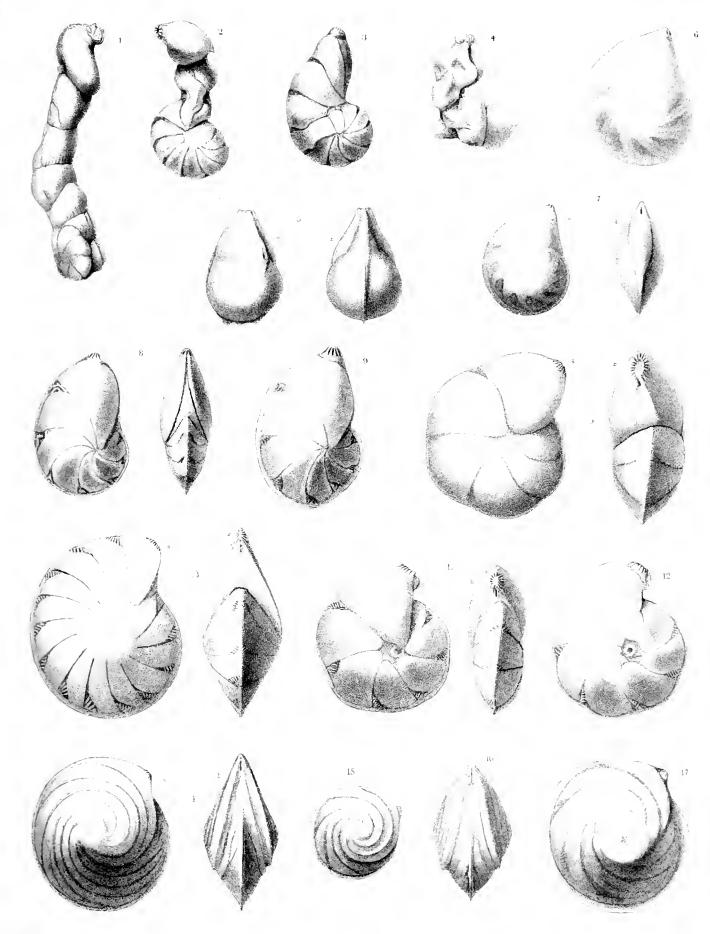




PLATE LXIX.

Cristellaria.

Figures 1–4.—Cristellaria articulata, Renss,	×	Diam. 20	Page 547
Wild-growing forms, abundant off Nightingale Island, Tristan d'Acunha.		20	047
., 5.—Cristellaria, sp.,	×	35	
Young specimen, possibly of <i>Cristellaria deformis</i> , Reuss, or some similar variety.			
6,7.—Cristellaria convergens, Bornemann,			546
Fig. 6. Lateral aspect,	×	40	
Fig. 7. n , Lateral aspect; b , front peripheral aspect, .	*	50	
., 8, 9.— <i>Cristellaria gibba</i> , d'Orbigny,	×	25	546
Figs 81, 9. Lateral aspect; b, front peripheral aspect.			
, 10-12.—Cristellaria articulata, Reuss,			547
Fig. 10. a, Lateral aspect; b, front peripheral aspect, .	×	16	
Fig. 11 a , 12. Lateral aspect; b , front peripheral aspect,	×	35	
., 13.— <i>Cristellaria rotulata</i> , Lamarck, sp.,	×	12	547
a, Lateral aspect; b , front peripheral aspect.			
., 14-16.—Cristellaria vortex, Fichtel and Moll, sp.,	×	30	548
Figs. 14 a, 15. Lateral aspect; figs. 14 b, 16, front peripheral aspect.			
" 17.—Cristellaria orbicularis, d'Orbigny, sp.,	×	30	549
Lateral aspect			



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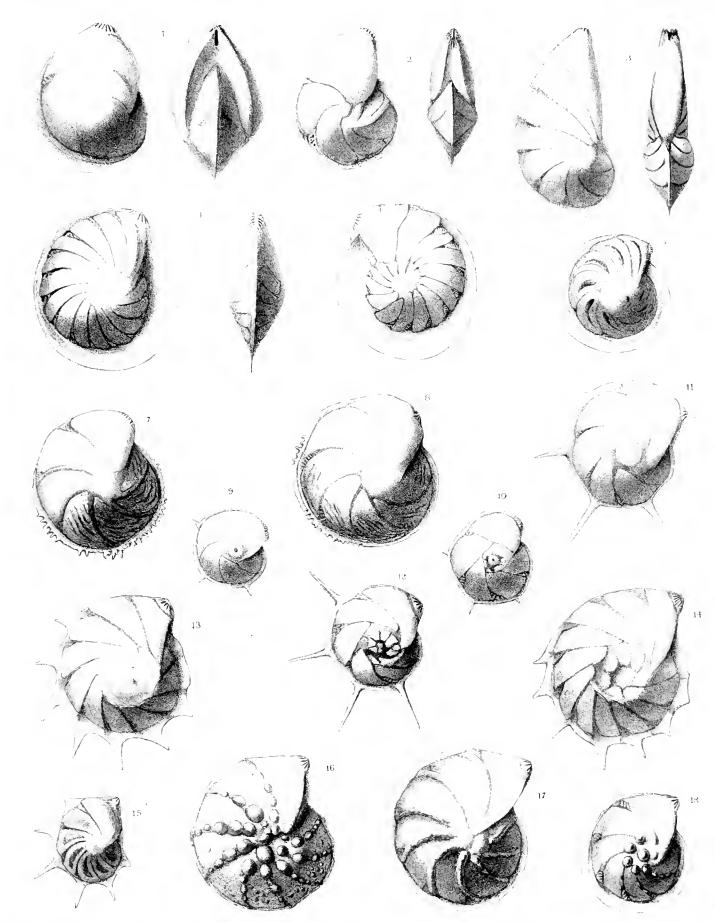
PLATE LXX.

(ZOOL. CHALL. EXP.—PART XXII.—1884.)—Y.

PLATE LXX.

Cristellaria.

Figure	1.—Cristellaria crassa, d'Orbigny,		Diam. × 40	Page 549
٠,	2.—Cristellaria nitiala, d'Orbigny,	. >	< 30	549
٠,	3.—Cristellaria reniformis, d'Orbigny, a, Lateral aspect; b, front perpheral aspect.	. >	< 25	539
.,	4-6.—Cristellaria cultrata, Montfort, sp	_	< 16 < 35	550
4 9	7, 8.—Specimens of the same, with deutate carina,	. >	20	550
٠ ٦	9-15Cristellaria calcar, Linné, sp., Lateral aspect; figs. 9-12, 15, × 35 diam.; figs. 13, 14	. , >	. 25	551
- 1	16.—Cristellaria papillosa, Fichtel and Moll, . Lateral aspect.	, ×	20	553
,, 1	7, 18.— <i>Cristellaria mamilligera</i> , Karrer,	. ×	20	553



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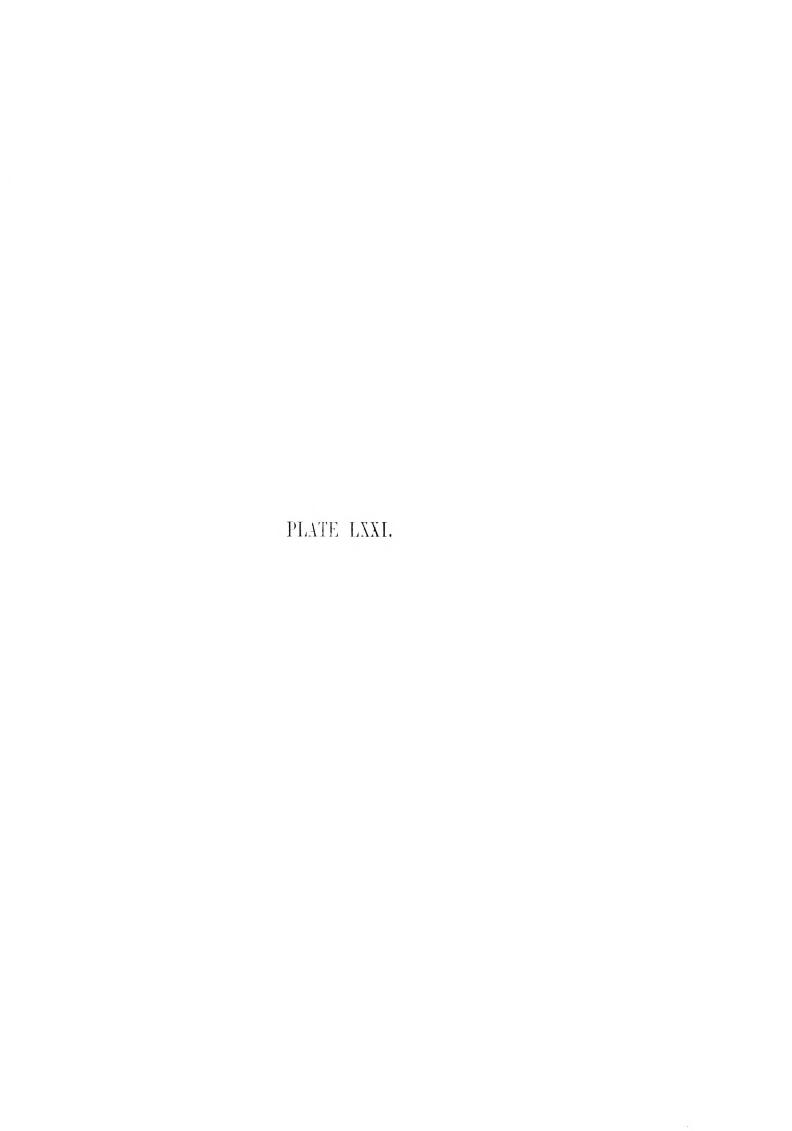
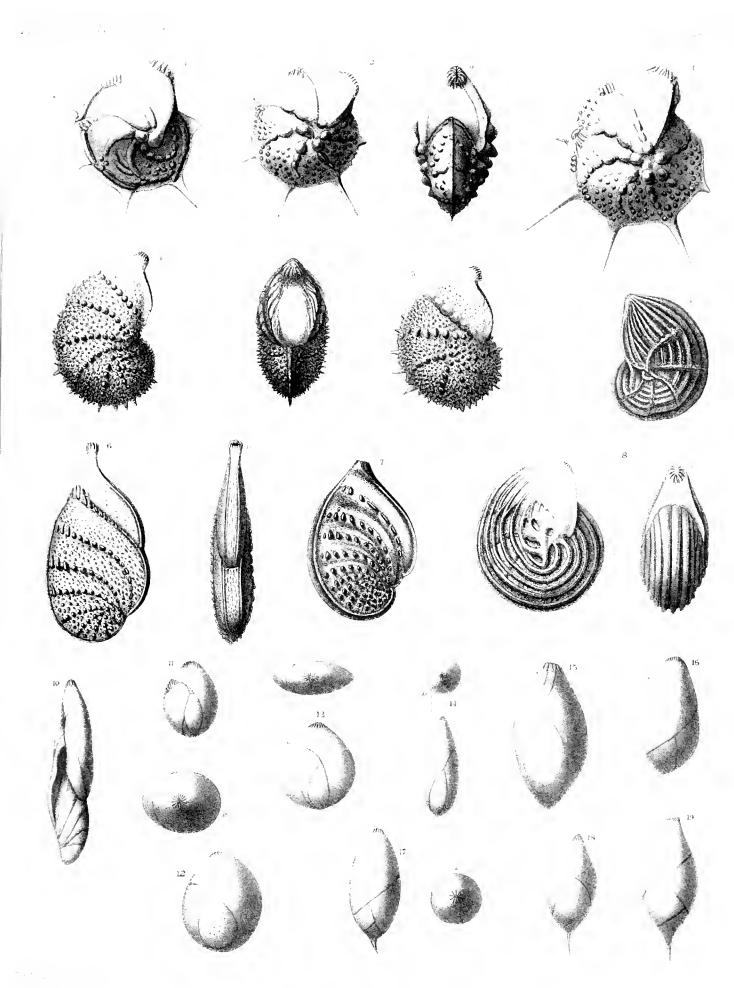


PLATE LXXI.

Cristellaria.—Polymorphina.

Figures	1–3.—Cristellaria eclinata, d'Orbigny, sp.,		Dian.	Page 554
	h, Front peripheral aspect; fig. $1, \times 30$; figs. $2, 3, \dots$	×	20	
25	4, 5.—Cristellaria aculcuta, d'Orbigny	×	25	555
,,	6, 7.—Cristellaria gemmata, Brady	×	35	554
,,	8, 9.—Cristellaria costata, Fichtel and Moll, sp., b, Front peripheral aspect.	×	85	555
	10.—Dimorphous specimen, the earlier chambers arranged as in <i>Cristellaria</i> , the later ones as in			
	$Polymorphina, \qquad . \qquad . \qquad .$	×	50	
,,	11.—Polymorphina lactea, Walker and Jacob	×	50	559
••	12.—Polymorphina gibba, d'Orbigny,	×	40	561
,,	13.—Polymorpheina amyydaloides, Reuss, b. Oral aspect.	×	75	560
••	14.—Polymorphina lactea, Walker and Jacob,—elongate variety,	×	75	559
,, 1	5, 16.—Polymorphina sororia, Reuss	×	50	562
,, 1	7–19.—Polymorphina sorovia, var. euspidata, nov., b. Oral aspect.	×	60	563



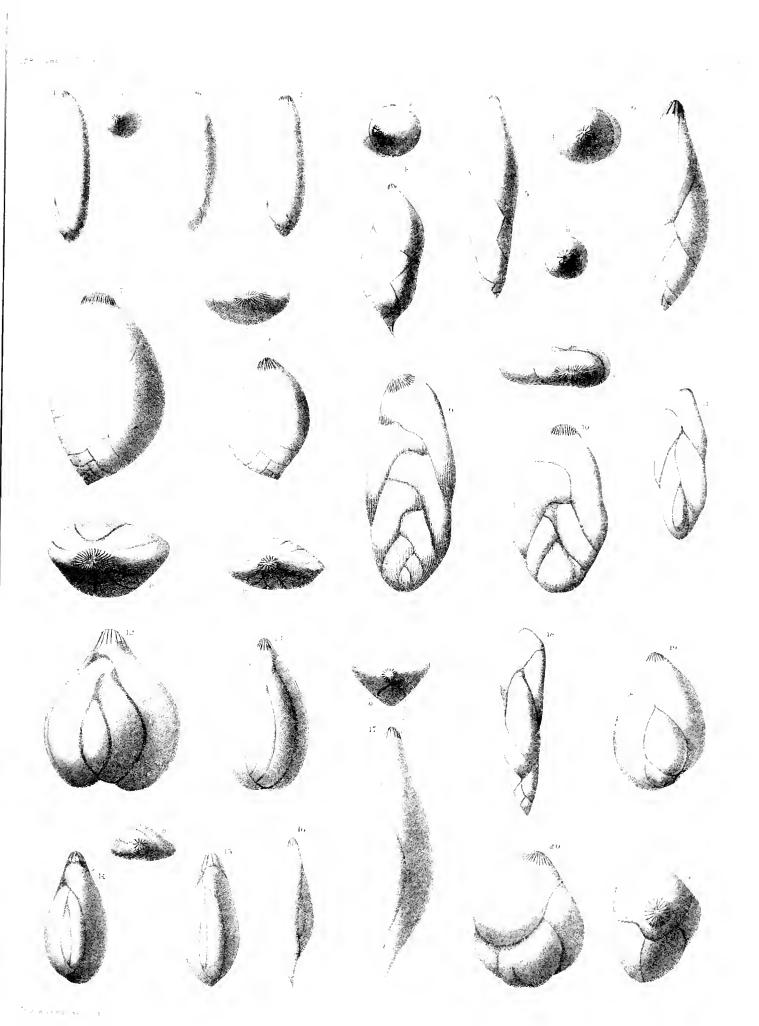
PISTELLARIA-POLYMORPHHIA

PLATE LXXII.

PLATE LXXII.

Рогумогрніка.

Figures 1-3.—Polymorphina angusta, Egger, b, Oral aspect.		×	Diam. 45–60	Page 5 6 3
., 4.—Polymorphina sororia, var. cuspidata, nov., b, Oral aspect.		×	50	563
,, 5, 6.—Polymorphina lanceolata, Reuss, b, b , Oral aspect.		×	45	564
7, 8.—Polymorphina ovata, d'Orbigny, b. Oral aspect.	•	×	25	564
" 9-11.—Polymorphina compressa. d'Orbigny,		,		565
b, Oral aspect. Fig. 9. \times 18 diam.; fig. 10, \times 25 diam.; fig. 11,		×	40	
12-15.—Polymorphina elegantissima, Parker and Jones, b, b, b, Oral aspect.		×	50	566
16, 17.—Polymorphina seguenzana, n. sp., b, Oral aspect.		×	40	567
18.—Polymorphina thomini, d'Orbigny.		×	18	567
19.—Polymorphina communis, d'Orbigny, .		×	50	568
20.—Polymorphina problema, d'Orbigny, b, Oral aspect.		×	40	568



POLEMORPHINA

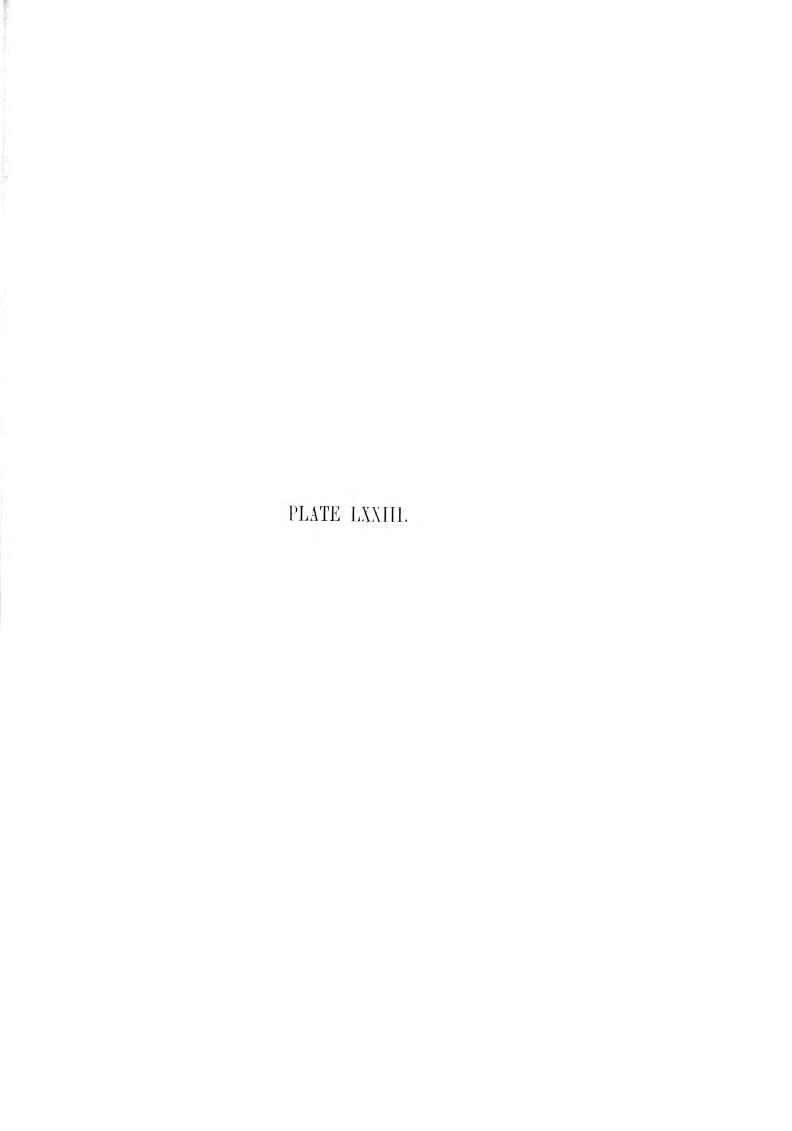
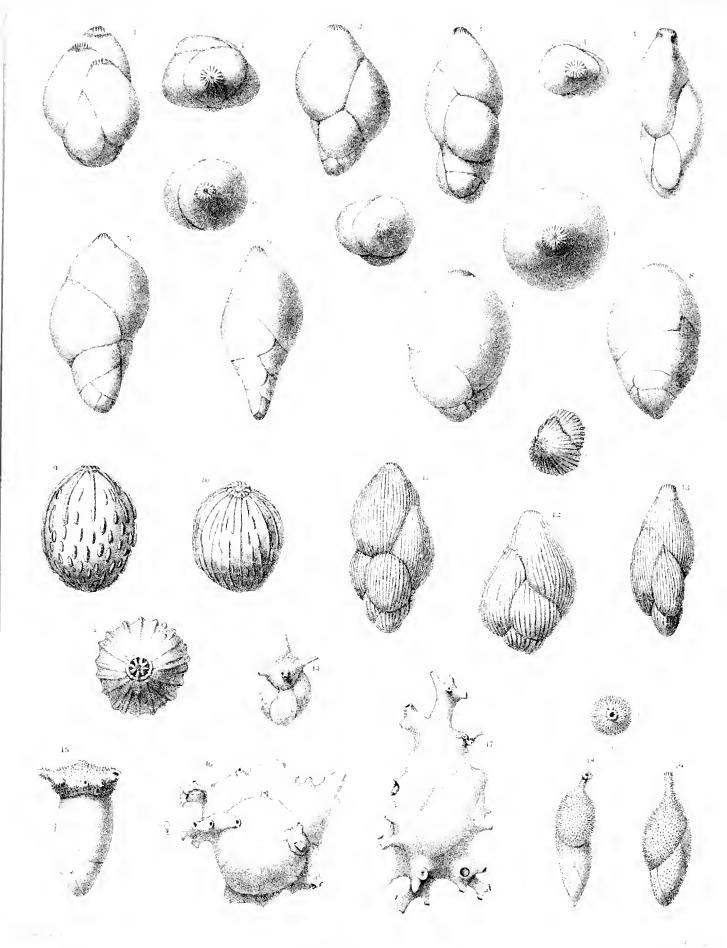


PLATE LXXIII.

Родумоврника.

Figure 1.—Polymorphina problema, d'Orbigny, b, Oral aspect.			×)iam. 40	Page 568
$2-4$.— $Polymorphina\ oblonga$, d'Orbigny, b , Oral aspect.	•		×	40	569
., 5–8. $-Polymorphina\ rotundata$, Bornemann, sp., b,b , Oral aspect.			×	30	570
9, 10.—Polymorphina myristiformis, Williamson, b, Oral aspect.			×	60-75	571
., 11–13.— <i>Polymorphina regina</i> , Brady, Parker, and b, Oral aspect.	Jones,		×	35 50	571
14.—Polymorphina lactea, fistulose form,			×	50	560
15.—Polymorphina sororia, fistulose form,			×	30	562
16.—Polymorphina gibba, fistulose form,			×	35	562
17.—Polymorphina compressa, fistulose form.			×	50	566
18, 19.—Polymorphina longicollis, Brady, b, Oral aspect.		•	×	50-60	572



P1. TMORPHINA

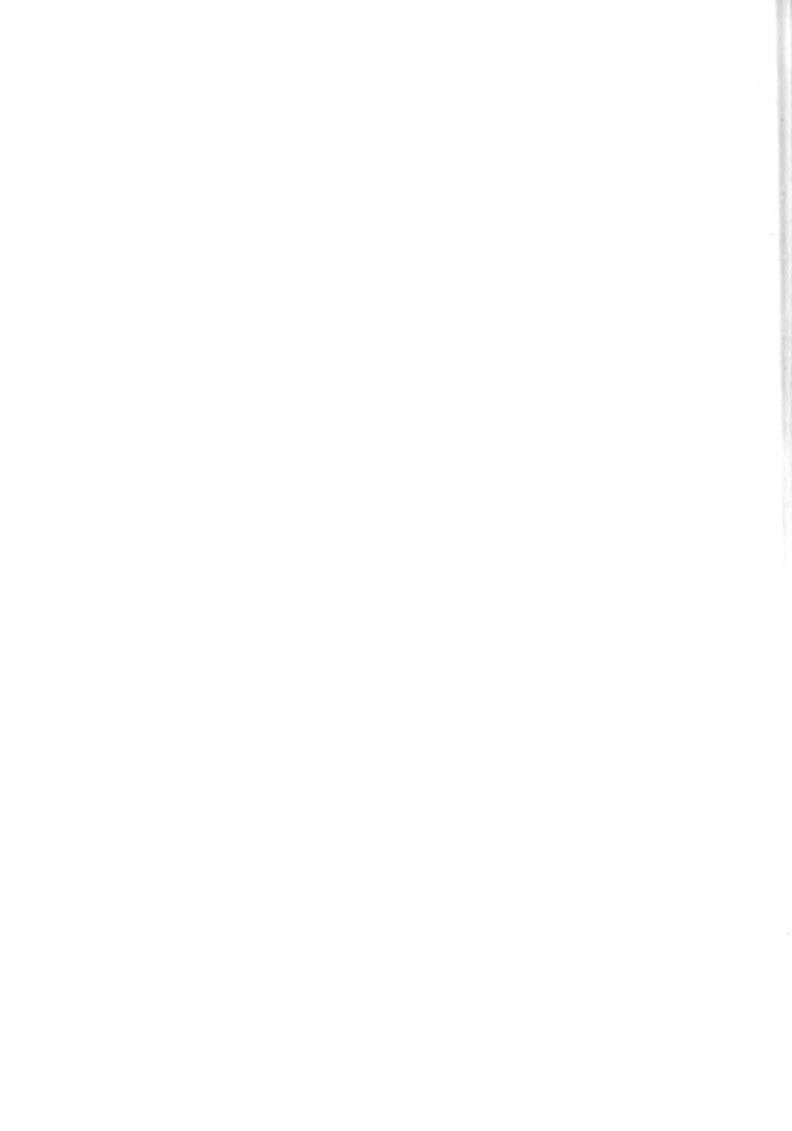
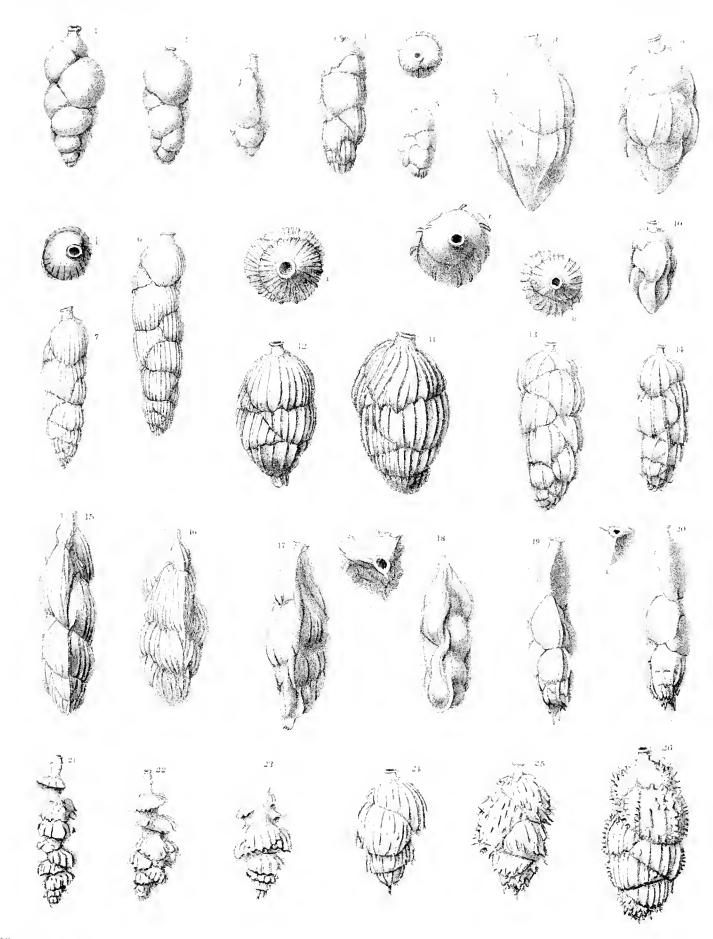


PLATE LXXIV.

PLATE LXXIV.

Uvigerina.

Figures 1-3.—Uvigerina canariensis, d'Orbigny,	٠		Diam.	Page 573
Lateral aspect; fig. 1, \times 50 diam.; fig. 2, \times 60; fig.	g. 3,	×	75	
" 4–7.— Urigerina temuistriata, Reuss,				574
Figs. 4, 5. Lateral aspect; b , oral aspect, . Figs. 6, 7. Lateral aspect; b , oral aspect, .		×	50 45	
" 8–10.—Uvigerina schwageri, n. sp.,		×	30	575
Figs. 8, 9. Lateral aspect; b, oral aspect.Fig. 10. Young specimen.				
" 11–14.— <i>Uvigerina pygmæa</i> , d'Orbigny,				575
Figs. 11, 12. Typical form, lateral aspect; b, oral a Figs. 13, 14. Elongate variety, lateral aspect; b,		×	50	
aspect,	orar .	×	60	
" 15–18.— Uvigerina angulosa, Williamson,	•	×	60	576
Figs. 15–18. Lateral aspect; b , oral aspect.				
,, 19, 20.—Uvigerina angulosa, var. spinipes, Brady,		×	60	577
Figs. 19, 20. Lateral aspect; h, oral aspect.				
., 21, 23.—Urigerina porrecta, Brady,		×	70	577
Lateral aspect.				
., 24–26.— <i>Uvigerina</i> , sp.,		×	40-55	575
Intermediate specimens connecting $Uvigerina$ pyg with $Uvigerina$ $aculeata$.	mwa			



UVIGERINA



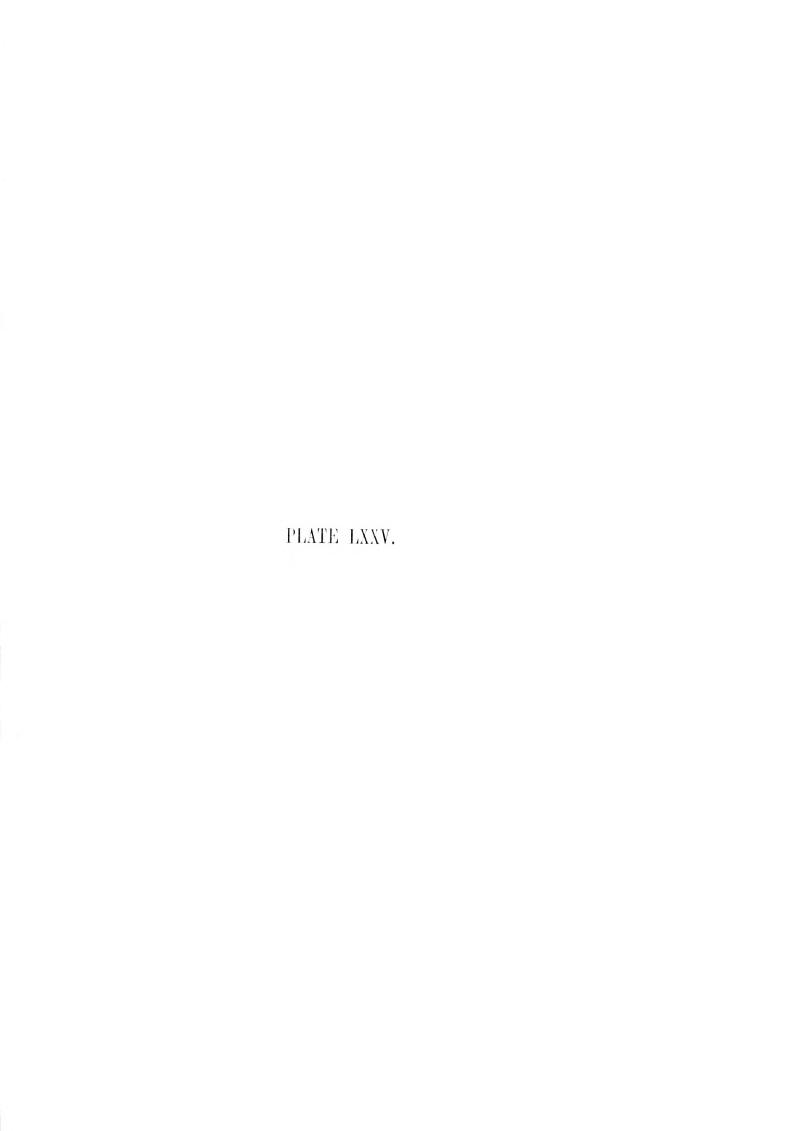


PLATE LXXV.

Uvigerina.—Sagrina.

		Dia	m. Page
Figures 1-3.—Uvigerimi aculeata, d'Orbigny,		× 35	5 578
 Fig. 2. Typical specimen—lateral aspect; b, oral aspect Figs. I, 3. Intermediate specimens connecting the species with the costate forms, 		,	575
., 4, 5.—Uvigerina brannensis, Karrer,		× 45	5 577
Lateral aspect.	•	. 16	, 3,1
" 6–8.—Uvigerina asperula, Czjzek,		× 50	578
Figs. 6, 7, 8. Lateral aspect; b, oral aspect.			
" 9.—Uvigevina aspevula, var. auberiana, d'Orbigny, Lateral aspect.		× 40	579
,, 10, 11.—Uvigerina asperula, var. ampullacca, nov., Figs. 10, 11. Lateral aspect; b, oral aspect.		K 60	579
,, 12–14.— <i>Uvigerina interrupta</i> , Brady, Lateral aspect.		× 70	580
,, 15–17.—Sagrina columellaris, Brady, Figs. 15, 16, 17. Lateral aspect; b, oral aspect.		× 45	5 581
,, 18-20.—Sagrina bifrons, Brady, Figs. 18, 19, 20. Lateral aspect; b, oral aspect.		× 5(582
" 21–24.—Sagrina raphanus, Parker and Jones, .			585
Figs. 21, 22, 23. Lateral aspect; b, b, oral aspect,	•	× 60	
Figs. 24. Elongate tapering variety,	•	× 4.5	•
,, 25, 26.—Sagrina striata, Schwager,		× 43	5 584
Lateral aspect.			

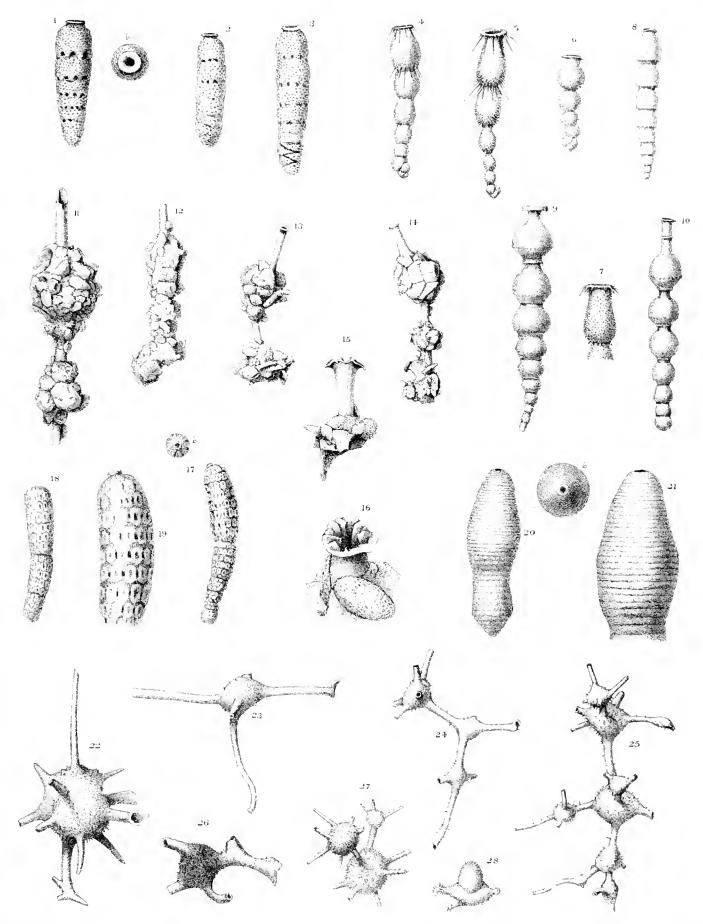


PLATE LXXVI.

PLATE LXXVI.

Sagrina.—Ramulina.—Nubecularia.

		Diam.	Page
Figures 1-3.—Sagrina dimorpha, Parker and Jones,	×	60	582
Figs. 1, 2, 3. Lateral aspect; b , oral aspect.			
,, 4-10.—Sagrina virgula, Brady,		•	583
Figs. 4-7. Typical shallow-water form, Figs. 8-10. Monomorphous thicker-shelled specimens	×	70	
from deeper water,		50-70	
., 11–16.—Nubecularia divaricata, Brady,	×	70	136
Figs. 11-14. Lateral aspect.Figs. 15, 16. Oral end of the test, showing the grooved tubular neck and everted lip.			
,, 17–19.— Sagrina (?) tessellata, n. sp.,			585
Figs. 17, 18. Lateral aspect; h , oral aspect, .	, ×	7.5	
Fig. 19. Terminal segment more highly magnified,	. ×	150	
20, 21.— <i>Sagrina (?) annulata</i> , n. sp.,			586
Fig. 20. Lateral aspect; b , oral aspect,	. ×	60	
Fig. 21. Terminal segment more highly magnified,		100	
,, 22–28.—Ramulina globulifera, Brady,	. ×	35	587



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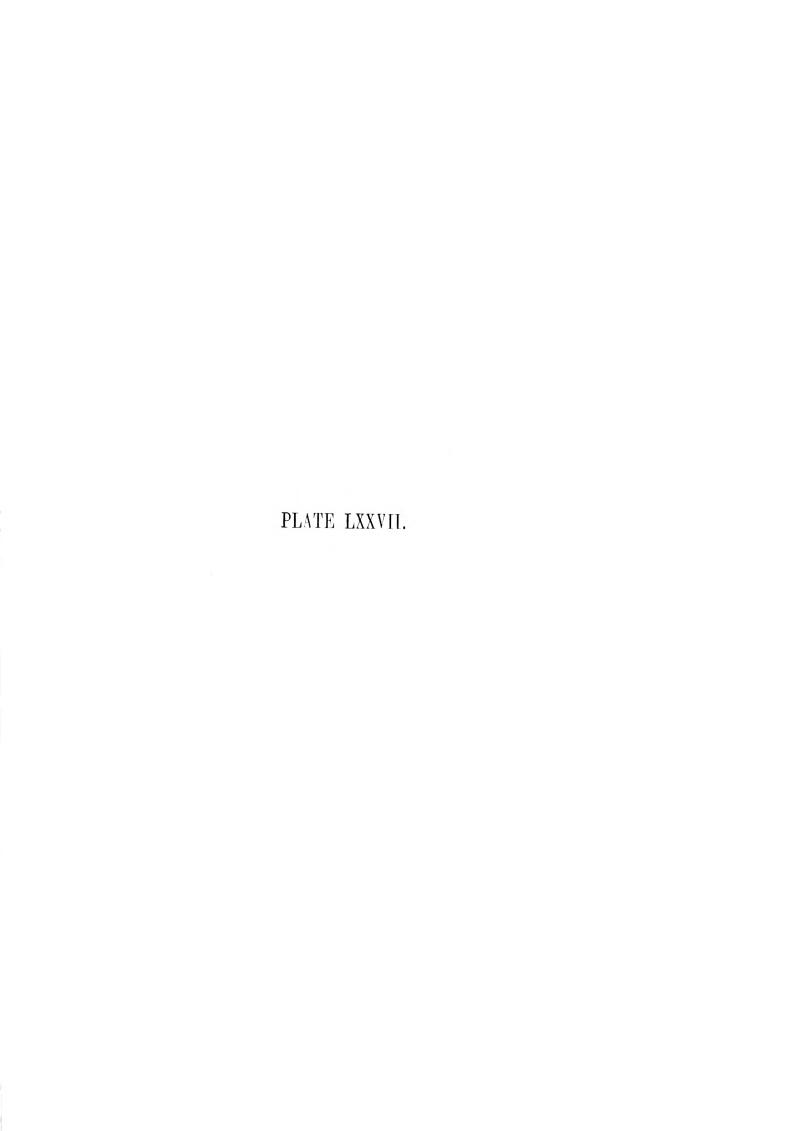


PLATE LXXVII.

GLOBIGERINA.

						Diam .	Page
Globigerina bulloides, d'Orbigny,				•	×	200	593
Surface specimen, in	nmediate	ly after bei	ng taken	${\bf from}$			
the sear dray	wn by M	r. Wild .					

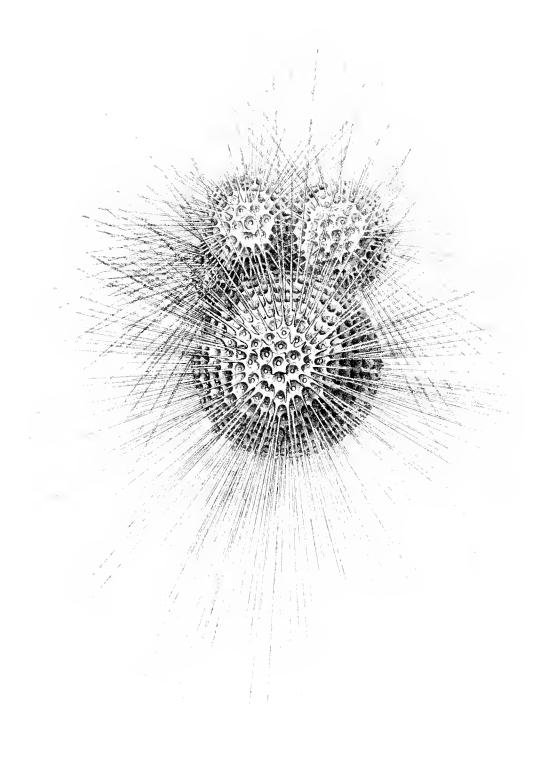


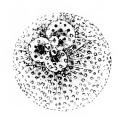


PLATE LXXVIII.

PLATE LXXVIII.

Orbulina.

							Diam.	Page
Orbulina universa, d'Orbigny,						×	40	608
Surface spec	eimen, i	mmediately	v after bei	ing taken	${\bf from}$			
the sea; c	lrawn b	y Mr. Wile	ıl.					





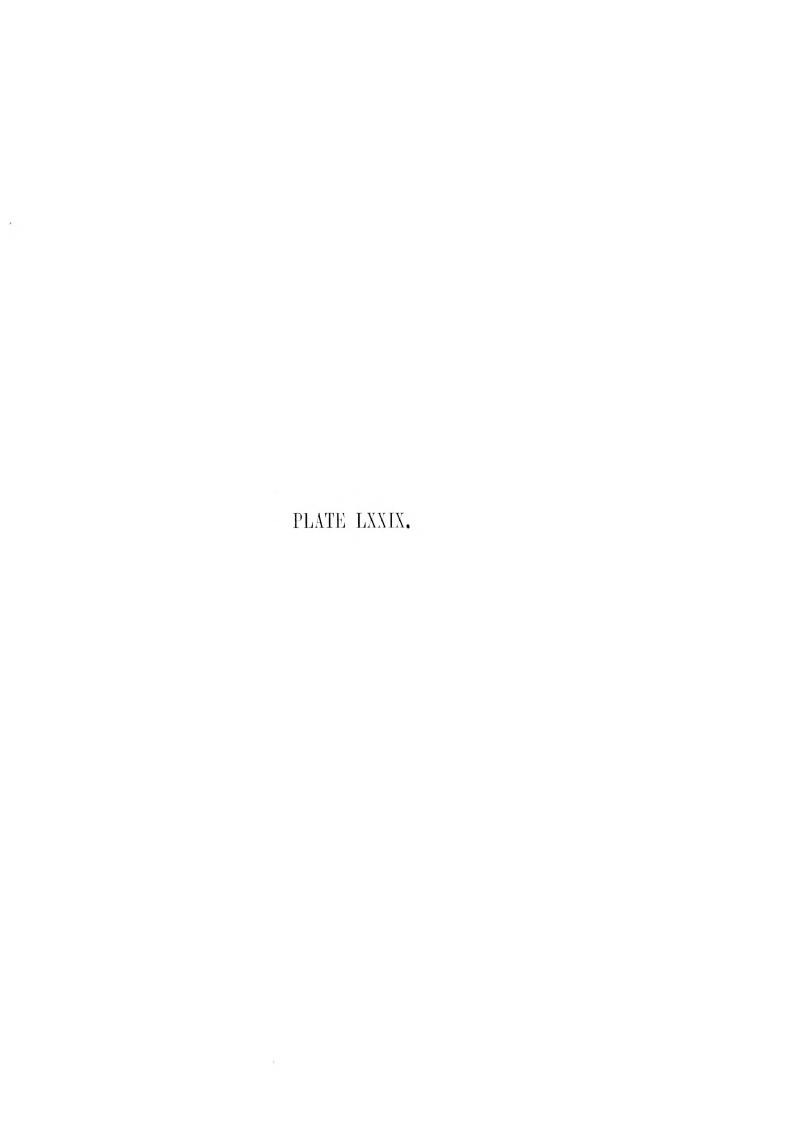
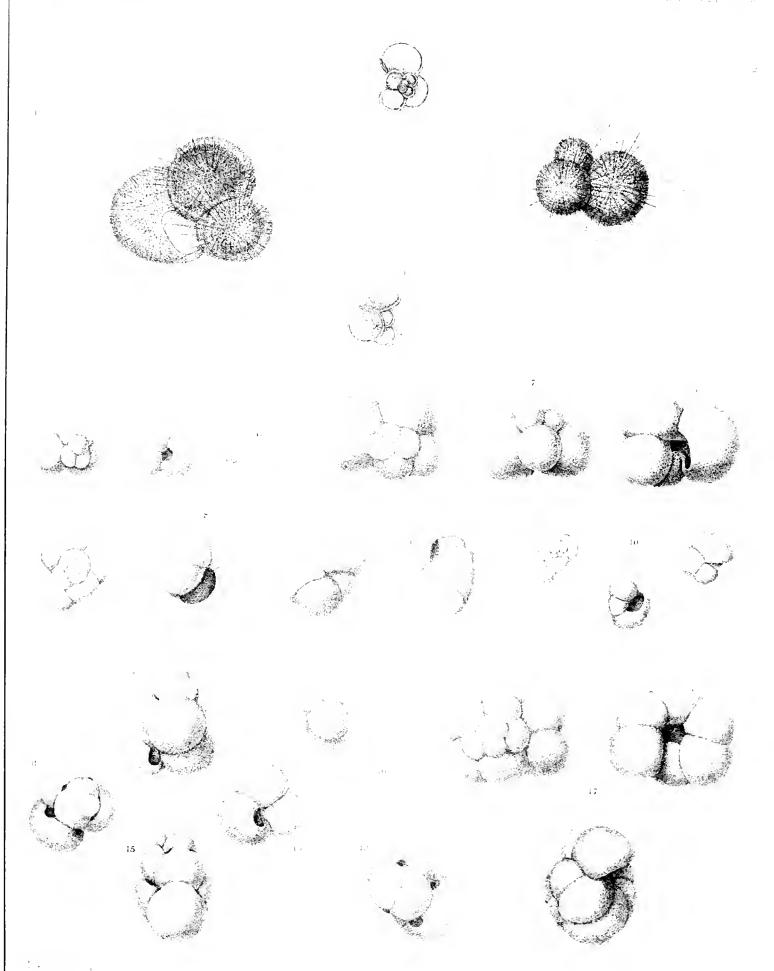


PLATE LXXIX.

GLOBIGERINA.

a, Superior aspect; b , inferior aspect; c , peripheral aspect.		Diam.	Page
Figures 1–7.—Globigerina bulloides, d'Orbigny, .	×	50	593
Figs. 1, 2. Var. triloha, Reuss; spinous pelagic specimens,			595
mens, Figs. 5-7. Typical form, bottom specimens; fig. 5. young example; fig. 6, adult specimen of the			593
starved form common on the British coast; fig. 7, adult typical shell.		•	593
" 8–10.—Globigerina inflata, d'Orbigny	×	50	601
Figs. 8, 9. Bottom specimens.Fig. 10. Pelagic specimen.			
" 11-16.—Globigerina rubra, d'Orbigny,	×	50	602
 Figs. 11–15. Bottom specimens: figs. 11, 12, superior aspect, showing supplementary apertures; fig. 13, inferior aspect; fig. 14, peripheral aspect. Fig. 16. Young, spinous, pelagic specimen. 			
,, 17.—Globiyerina dubia, Egger	×	50	595
Bottom specimen.			



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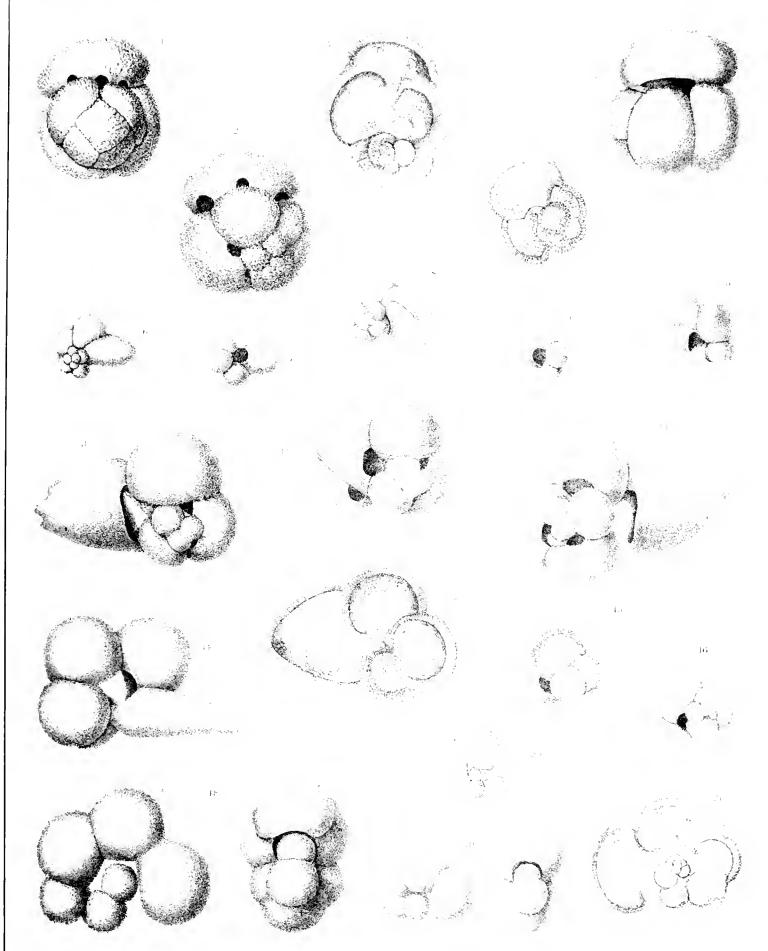
PLATE LXXX.

(2001, CHALL, EXP.—PART XXII.—1884.)—Y.

PLATE LXXX.

GLOBIGERINA.

Figures 1-5.—Globigerina conglobata, Brady,	×	Diam. 50	$\begin{array}{c} \text{Page} \\ 603 \end{array}$
 Figs. 1-3. Bottom specimens; figs. 1, 2, superior aspect, showing supplementary apertures; fig. 3, inferior aspect. Fig. 4. Spinous pelagic specimen. Fig. 5. Section of the shell, showing its thickness, and the coarse tubulation of the walls. 			
., 6–10.—Globigerina digitata, Brady,	×	50	599
Bottom specimens: figs. 6, 8, superior aspect; figs. 7, 9, inferior aspect; fig. 10, peripheral aspect.			
,. 11–17.—Globigerina sacculifera, Brady,	×	50	604
 Figs. 11-14. Bottom specimens; figs. 11-13, superior aspect; fig. 14, inferior aspect. Figs. 15, 16. Small pelagic specimens, in the spinous condition. Fig. 17. Section of the shell, showing its thickness and the coarse tubulation of the walls. 			
" 18–21.—Globigerina aquilateralis, Brady,	×	50	605
 Figs. 18, 19. Bottom specimens; a,a, lateral aspect: b,b, peripheral aspect. Fig. 20. Surface specimen. Fig. 21. Section of the shell. 			



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GLOBIGERINA

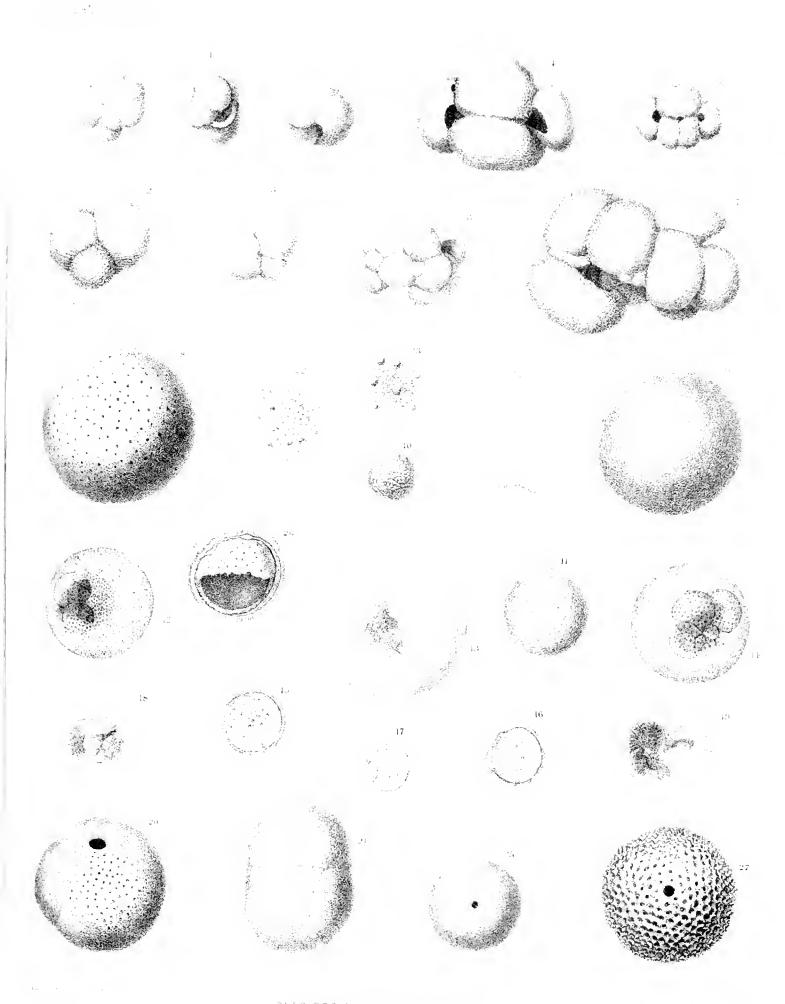




PLATE LXXXI.

GLOBIGERINA.—ORBULINA.

Figure 1.—Globigerina dutertrei, d'Orbigny, Bottom specimen; a, superior aspect; b, inferior aspect; c, peripheral aspect.	×	Diam. 50	Page 601
" 2, 3.—Globigerina bulloides, var. triloba, Reuss,	×	50	59 5
" 4, 5.—Globigerina helicina, d'Orbigny,	×	50	605
Fig. 4. Inferior aspect; fig. 5, superior aspect.			
,, 6, 7.— ϵ dobigerine,—wild-growing monstrons forms, Bottom specimens.	×	50	593
8-26.—Orbulina universa, d'Orbigny,			608
Figs. 8-11. Bottom specimens; fig. 10, small dark-coloured variety common in shallow water on the British coast,	×	50 50	
Figs. 12-14. Small bottom specimens in which the Globigerine shell is not completely enveloped by the Orbuline chamber,	×	50	
 Figs. 18, 19. Internal Globigerine shells partially filled with sarcode; from balsam-mounted specimens, Figs. 20, 21. Two-chambered specimens. Such forms constitute the Globigerina bilobata of 	Х	50	
d'Orbigny,	×	50	
tion of the exterior,		100	
Fig. 24. Portion of a spinous shell,	Ж	50	
Fig. 25. Bottom specimen with a general aperture (?); copied from Williamson,	×	50	
condition of the walls,	×	50	
" 27.—Orbulina povosa, Terquem,	×	50	611



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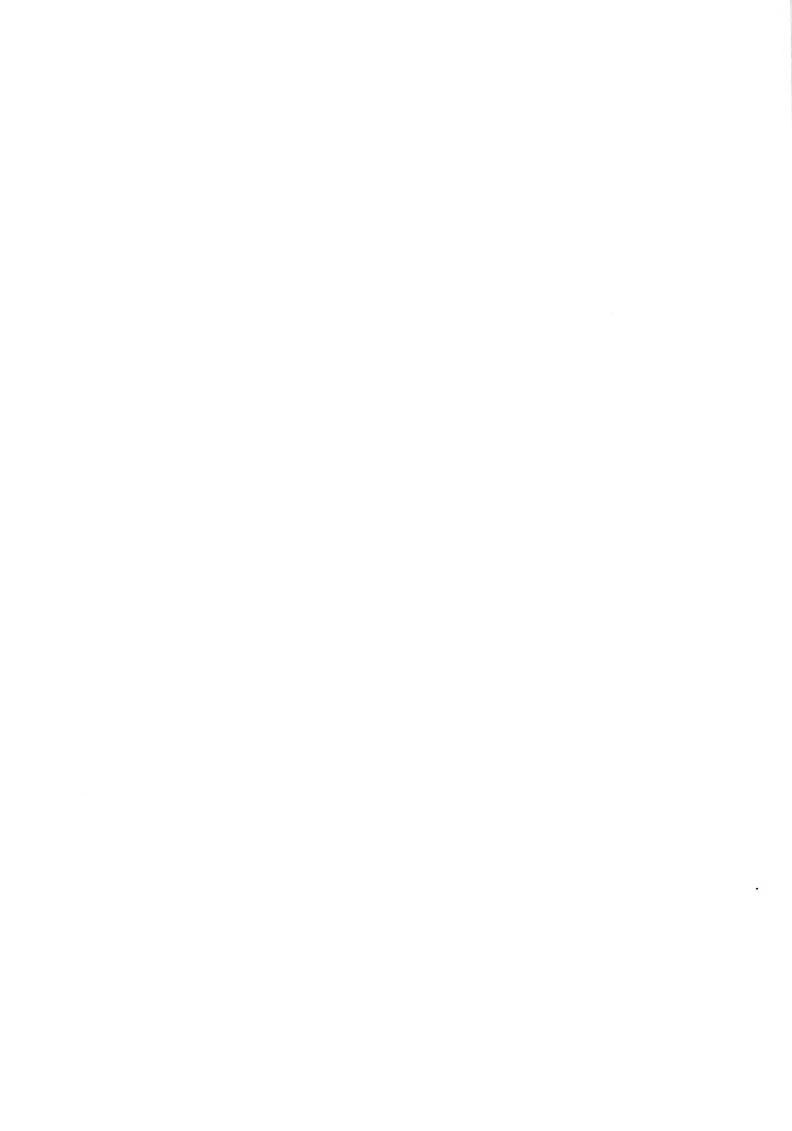


PLATE LXXXII.

PLATE LXXXII.

Globigerina.—Orbulina.—Candeina.

	a, Superior aspect; b, inferior aspect;	, periphe	ral aspect.		Diam,	$\mathbf{p}_{\mathrm{age}}$
Figures	s 1–3.— <i>Orbulina universa</i> , d'Orbigny, .			×	50	608
C.	Fig. 1. Spinous pelagic specimen.Fig. 2. Two-chambered shell laid open.Fig. 3. Specimen with two supplements	ıry chaml	oers.			
٠,	4.—Globigerina sacculifera, Brady, . Adult pelagic specimen.			×	50	604
"	5.—Globigerina conglobata, Brady, . Adult pelagic specimen.			×	50	603
,,	6, 7.—Globigerina digitata, Brady, . Large bottom specimens.	•		×	50	599
''	8, 9.—Globigerina, sp.,			×	50	603
	Globigerina trochoides, Reuss.					
**	10.—Globigerina (cretacea, d'Orbigny?), Bottom specimen.	•	٠	×	50	596
,,	11.—Globigerina eretacea, d'Orbigny, . Fossil specimen.			×	50	59 6
,,	12.—Globigerina linnæana, d'Orbigny, sp., Fossil specimen.			×	50	598
11	13–20.—Candeina nitida, d'Orbigny, .					622
	72. 10 10 1			×	50	
	10 15			×	50	
	Fig. 19. Monstrous specimen,Fig. 20. Portion of the shell more lashowing the sutural apertures	ighly mag		×	50	
	perforation of the walls, .			×	100	

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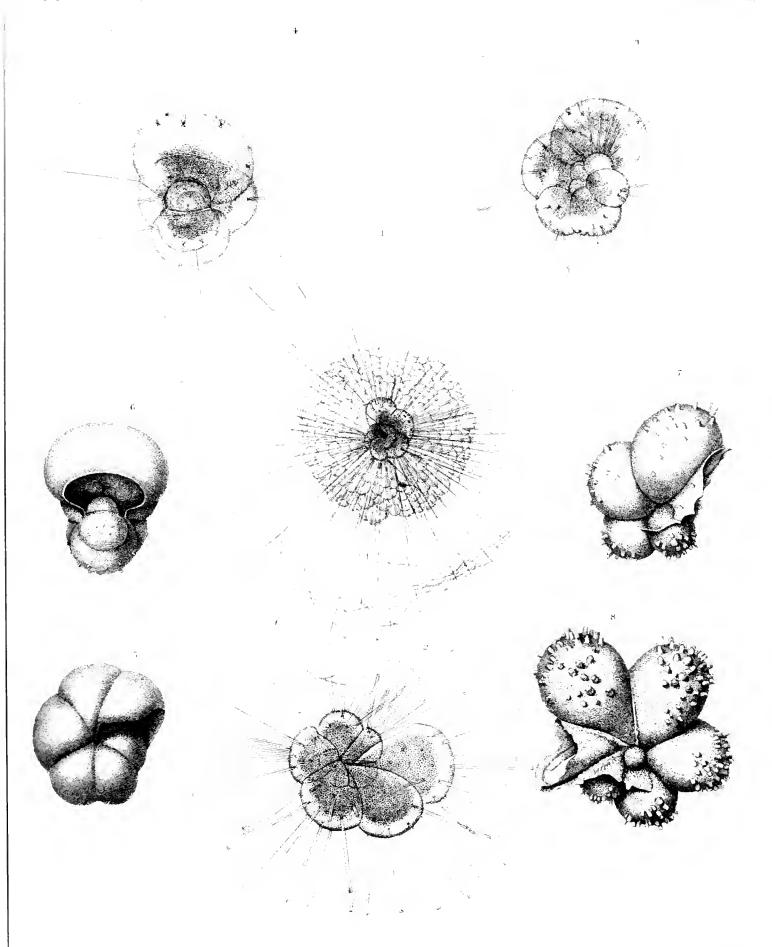


PLATE LXXXIII

PLATE LXXXIII.

Hastigerina.

		Diam.	\mathbf{Page}
Figures 1-8.—Hastigerina pelagica, d'Orbigny, sp			613
Fig. 1. Living specimen; the spinous shell enveloped			
in a lobulated mass of sarcode, with pseudo-			
podia extended. From a drawing by Mr.			
Wild,	×	43	
Fig. 2. From a fresh specimen, drawn by Mr. Wild, .	×	47	
Figs. 3, 4. From specimens mounted in glycerine,	×	50	
Figs. 5-8. Dead and empty shells, in the worn and			
broken condition in which they are usually			
found in bottom-dredgings.	×	50	



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PLATE LXXXIV.

(ZOOL. CHALL. EXP.—PART XXII.—1884.)—Y.

PLATE LXXXIV.

Sphæroidina.—Pullenia.

Figures 1-7.—Sphæroidina bulloides, d'Orbigny,	×	Diam. 50	Page 620
Figs. 1-4, 6, 7. Specimens of various forms, in different aspects.Fig. 5. Section of the shell, showing the laminated condition of the walls.			
" 8-11.—Sphæroidina dehiscens, Parker and Jones,	×	50	621
Figs. 8, 9. Bottom specimens.Fig. 10. Surface specimen.Fig. 11. Section of the shell, showing the thickness of the walls and their coarse tubulation.			
,, 12, 13.—Pullenia splavroides, d'Orbigny, sp.,	×	50	615
a, a , Lateral aspect; b , b , peripheral aspect.			
" 14, 15.—Pullenia quinqueloba, Reuss,	×	50	617
Figs. 14 a, 15. Lateral aspect; fig. 14 b, peripheral aspect.			
" 16–20.—Pullenia obliquiloculata, Parker and Jones, .	×	50	618
Figs. 16, 17. Pottom specimens. α , α , Lateral aspect b , b , peripheral aspect.			
Fig. 18. Surface specimen.			
Fig. 19. Monstrous example, isomorphous with Globigerina helicina.			
Fig. 20. Section of the shell, showing the thickness and tubulation of the walls, and the infolding of the superior margin of the septal apertures.			
of the superior margin of the septial apertures.			

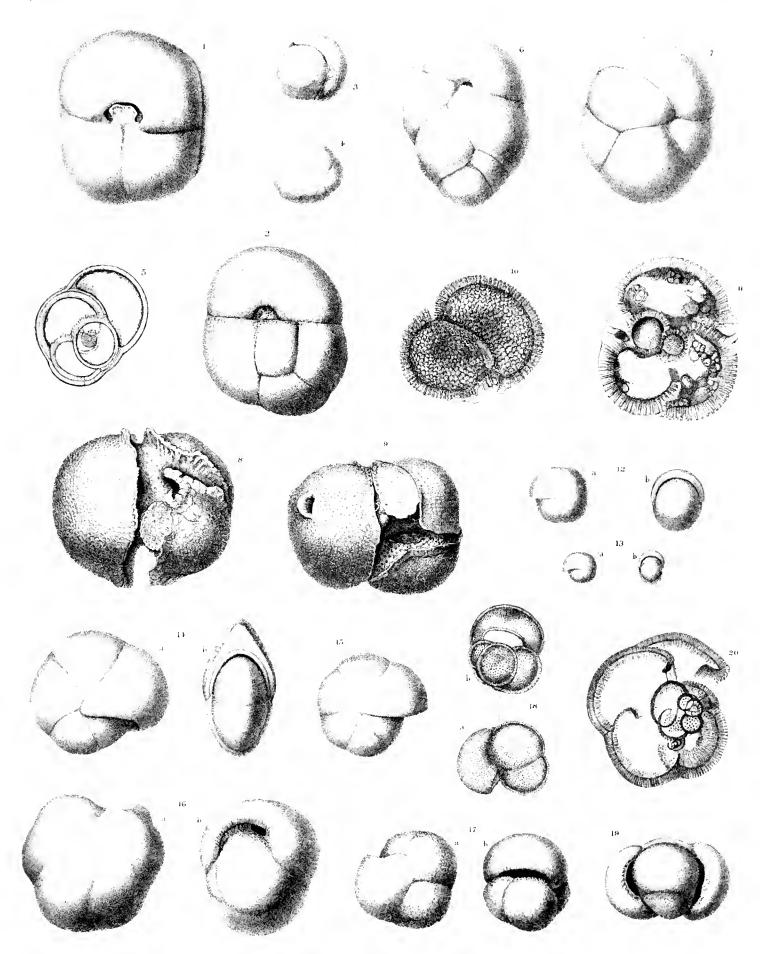


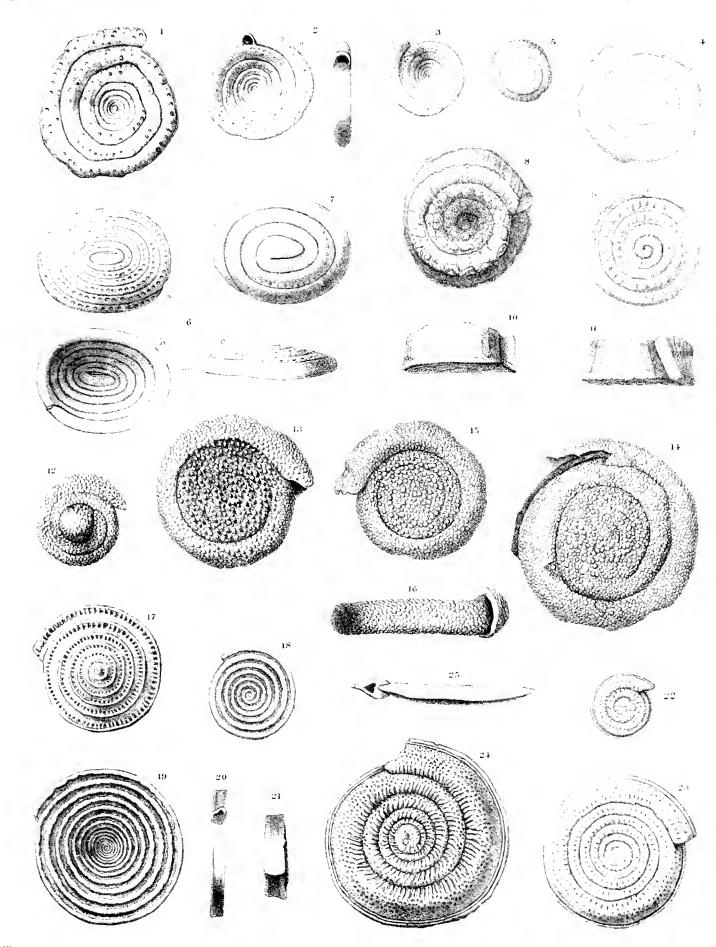


PLATE LXXXV.

PLATE LXXXV.

Spirillina.

Figures 1-5.—Spirillina vivipara, Ehrenberg,	×	Diam. 100	Page 630
Figs. 1, $2a$, 3-5. Lateral aspect; fig. $2b$, peripheral aspect.			
" 6, 7.—Spirillina obeonica, Brady,	×	120	630
Figs. 6 a, 7. Superior lateral aspect; fig. 6 b, inferior aspect; fig. 6 c, peripheral aspect.			
., 8–11.—Spirillina inaqualis, Brady	×	120	631
Fig. 8. Superior aspect; fig. 9, inferior aspect; figs. 10. 11, peripheral aspect.			
" 12–16.—Spirillina tuberculata. Brady.			631
Fig. 12. Young specimen, lateral aspect,	×	50	
Figs. 13, 15. Adult specimens, lateral aspect, Fig 14. Large example. The partially broken shell exposing a threal of nearly black dried	*	50	
surcode,	×	45	
Fig. 16. Peripheral aspect,	×	45	
17.—Spirillina limbata, var. denticulata, nov.,	×	50	632
Lateral aspect.			
., 18-21.—Spirillina limbata, Brady.			632
Fig. 18. Lateral aspect; fig. 21, peripheral aspect,	×	60	
Fig. 19. Lateral aspect; fig. 20, peripheral aspect,	×	50	
,. 22–25.—Spirillina decorata, n. sp.,	×	50	633
Figs. 22-24. Lateral aspect; fig. 25, peripheral aspect.			



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SPIRILLINA.

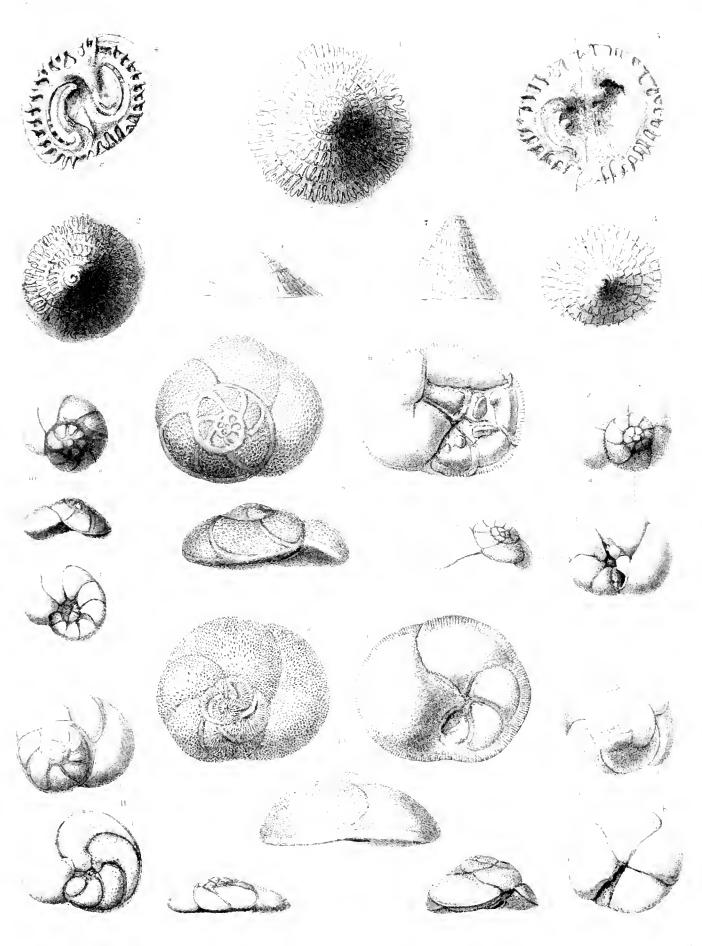


PLATE LXXXVI.

PLATE LXXXVI.

Patellina.—Discorbina.

		Diam.	Page
Figures 1-7.—Patellina corrugata, Williamson,			634
Figs. 1-3. Superior aspect; tigs. 4, 5, inferior aspect,	×	120	
Figs. 6, 7. Peripheral aspect (small specimens),	×	150	
" 8. 13.—Discorbina globularis, d'Orbigny, sp.,			643
Fig. 8. a , Superior aspect; b , inferior aspect; c , peripheral aspect,	×	75	
Fig. 13. α , Superior aspect; b , inferior aspect; c , peripheral aspect,	×	50	
., 9, 12.—Discorbina vilardeboana, d'Orbigny, sp., .	×	75	645
a,a, Superior aspect; b,b , inferior aspect; c,c , peripheral aspect.			
. 10, 11.— D is corbina araucana, d'Orbigny, sp.,	×	75-90	645
a, a, Superior aspect; b, b , inferior aspect; c, c , peripheral aspect.			



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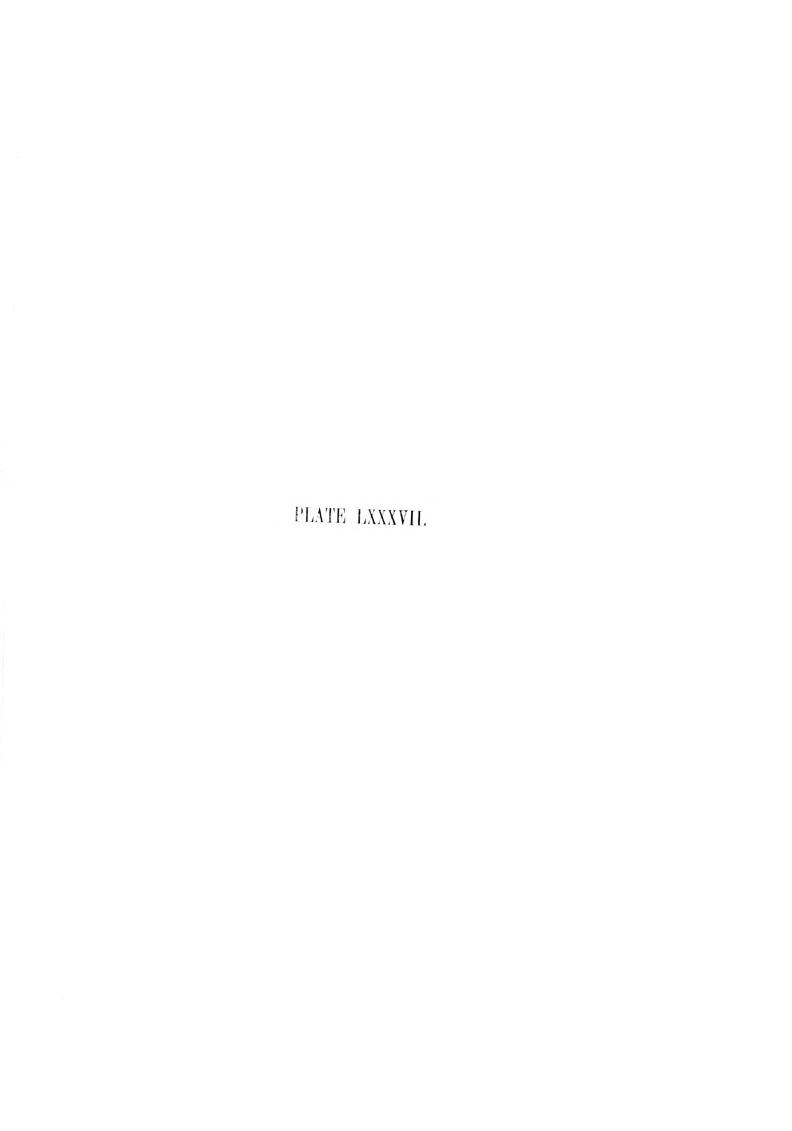


PLATE LXXXVII.

Discorbina.

Figures 1, 4.—Discorbina rosacca, d'Orbigny, sp.,		Diam.	$\frac{\mathrm{Pag}_{t^{\prime}}}{644}$
 Fig. 1. a, Superior aspect; b, inferior aspect; c, peripheral aspect, . Fig. 4. a, Superior aspect; b, inferior aspect; c, peripheral aspect; c, perip	×	100	
pheral aspect, \cdot , interior aspect, \cdot , pheral aspect, \cdot	×	50	
2.—Discorbina vesicularis, Lamarck, sp.,	×	35	651
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
3.—Discorbina rugosa, d'Orbigny, sp.,	×	60	652
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
., 5 7.—Discorbina valvulata. d'Orbigny, sp.,			644
 Fig. 5. a, Superior aspect; b, inferior aspect; c, peripheral aspect, Figs. 6, 7. Small adherent specimens, 	×	75 100	
" s.—Discorbina turbo, d'Orbigny, sp.,	×	60	642
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			

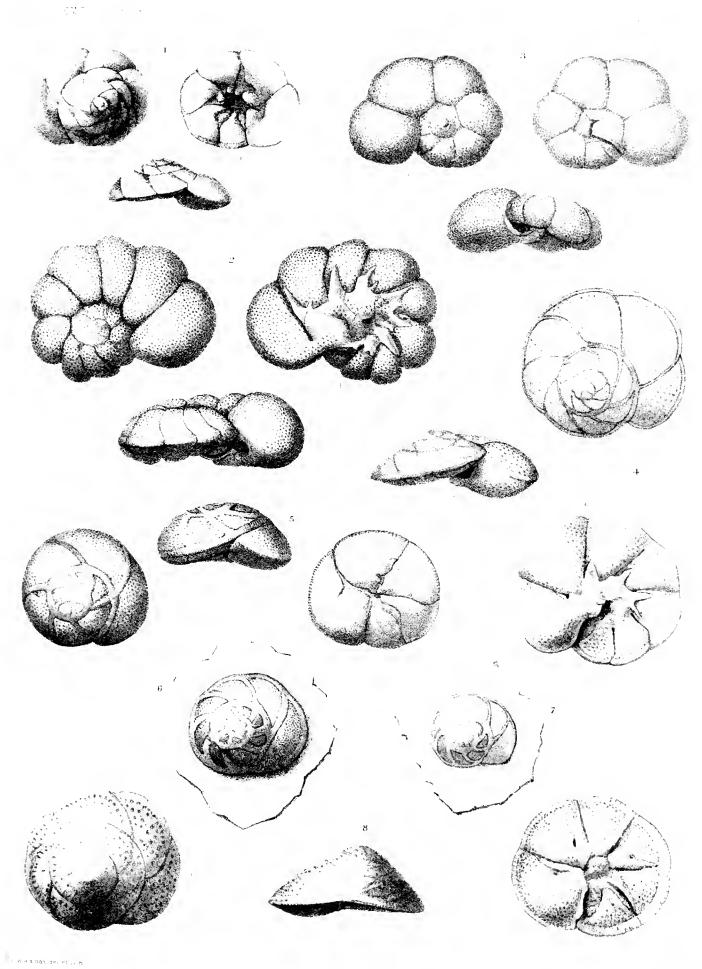
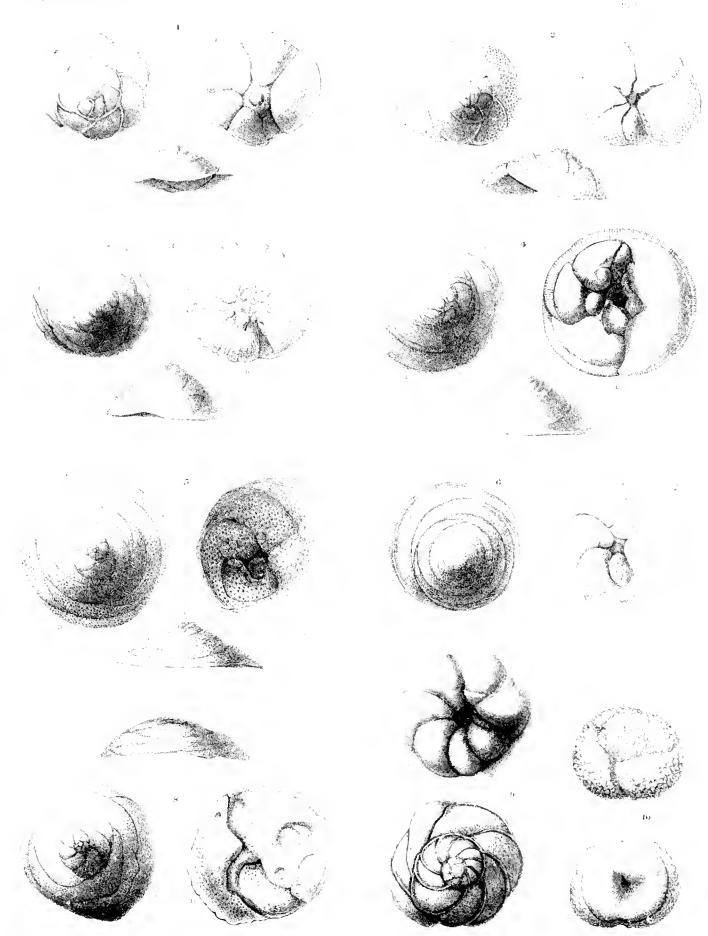




PLATE LXXXVIII,

PLATE LXXXVIII.

			Diam.	Page
Figure	1.—Discorbina isabelleana, d'Orbigny, sp.,	×	100	646
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	2.—Discorbina vilardeboana, d'Orbigny, sp., .	×	100	645
	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. 			
7.	3.—Discorbina patelliformis, n. sp.,	×	100	647
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	4-8.—Discorbina orbicularis, Terquem, sp.,		•	647
	 Figs. 4 a, 5 a, 6, 8 a. Superior aspect; figs. 4 b, 5 b, 7, 8 b, inferior aspect; figs. 4 c, 5 c, 8 c, peripheral aspect. Fig. 4, × 90 diam.; fig. 5, × 100 diam.; fig. 6, × 50 diam.; fig. 7, × 75 diam.; fig. 8, × 60 diam. 			
,,	9.—Discorbina eximia, Hantken,	×	50	646
	a, Superior aspect; b , inferior aspect.			
,,	10.—Discorbina pulvinata, n. sp.,	×	100	650
	" Superior assect: L inferior aspect			



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DISCORBINA.



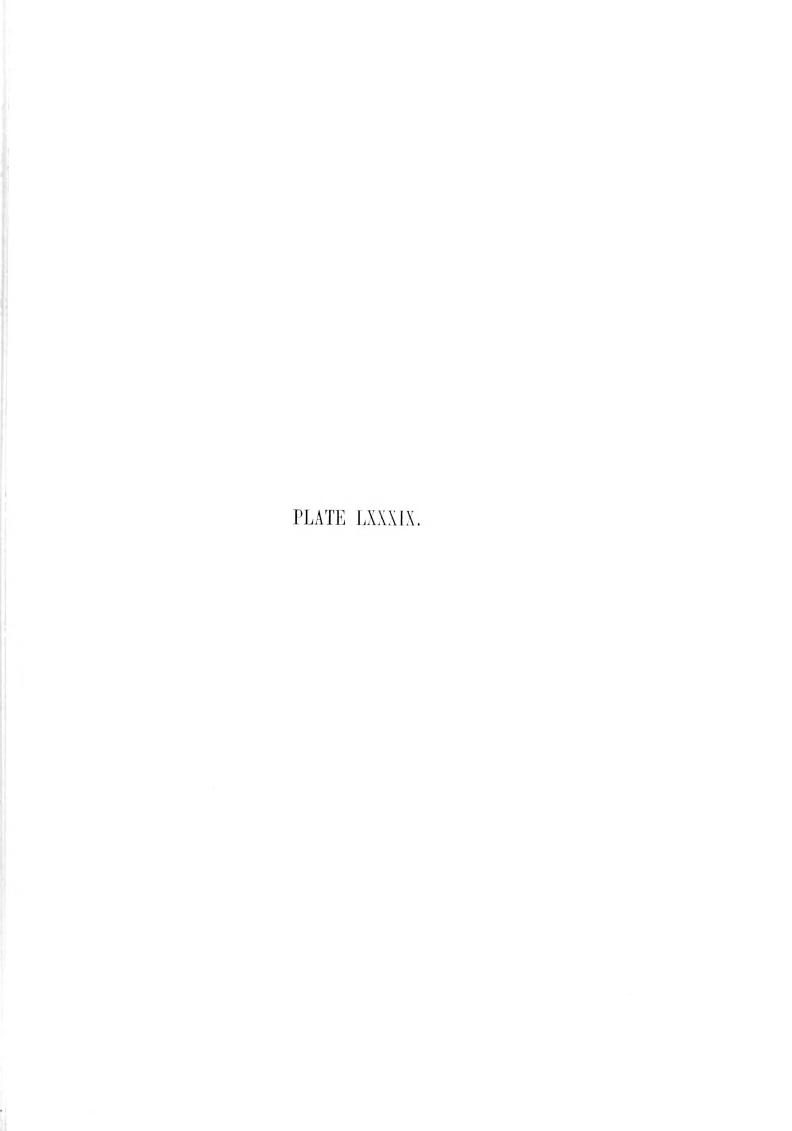
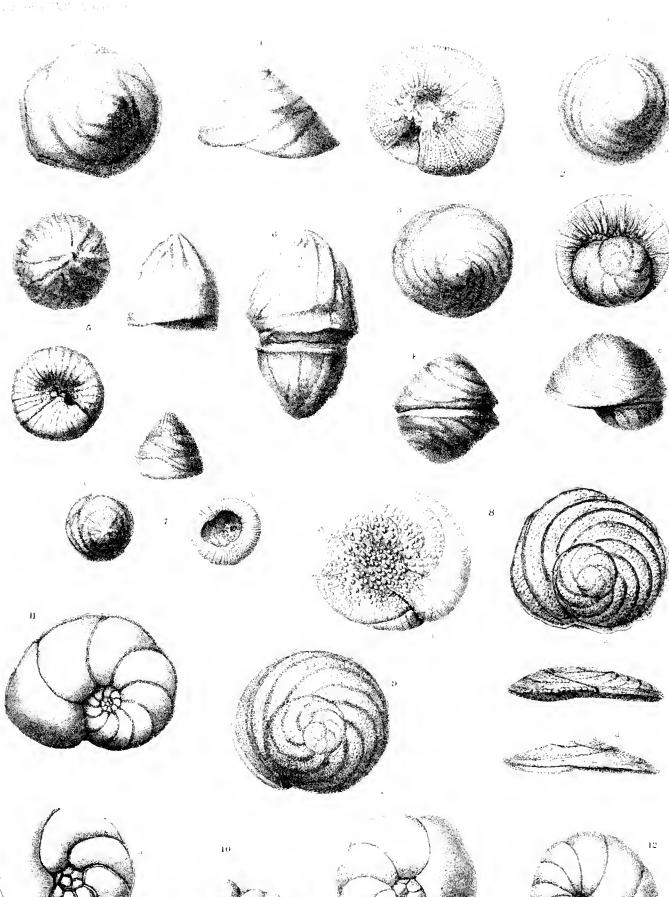


PLATE LXXXIX.

			Diam.	Page
Figure	1.—Discorbina patelliformis, n. sp.,	×	100	647
Ü	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. 			
,,	2-4.—Discorbina pileolus, d'Orbigny, sp.,	×	100	649
	 Figs. 2 a, 3. Superior aspect; fig. 2 b, inferior aspect; figs. 2 c, 4, peripheral aspect. Fig. 2, 4. Double specimens. 			
*,	5-7.—Discorbina tabernacularis, Brady,	×	100	648
	Figs. 5 a, 7 a. Superior aspect; figs. 5 b, 7 b, inferior aspect; figs. 5 c, 7 c, peripheral aspect.Fig. 6. Double specimen.			
,,	8, 9.—Discorbina opercularis, d'Orbigny, sp., .	×	100	650
	Figs. 8 a , 9. Superior aspect; b , inferior aspect; c , d , peripheral aspect.			
,, l	0-12.—Discorbina bertheloti, d'Orbigny, sp.,			650
	Fig. 10 a, Superior aspect; b, inferior aspect; c, peri-			
	pheral aspect,	×	90	
	Fig. 11. Superior aspect,	×	60	
	Fig. 12. Inferior aspect,	×	100	



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DISCORBINA.

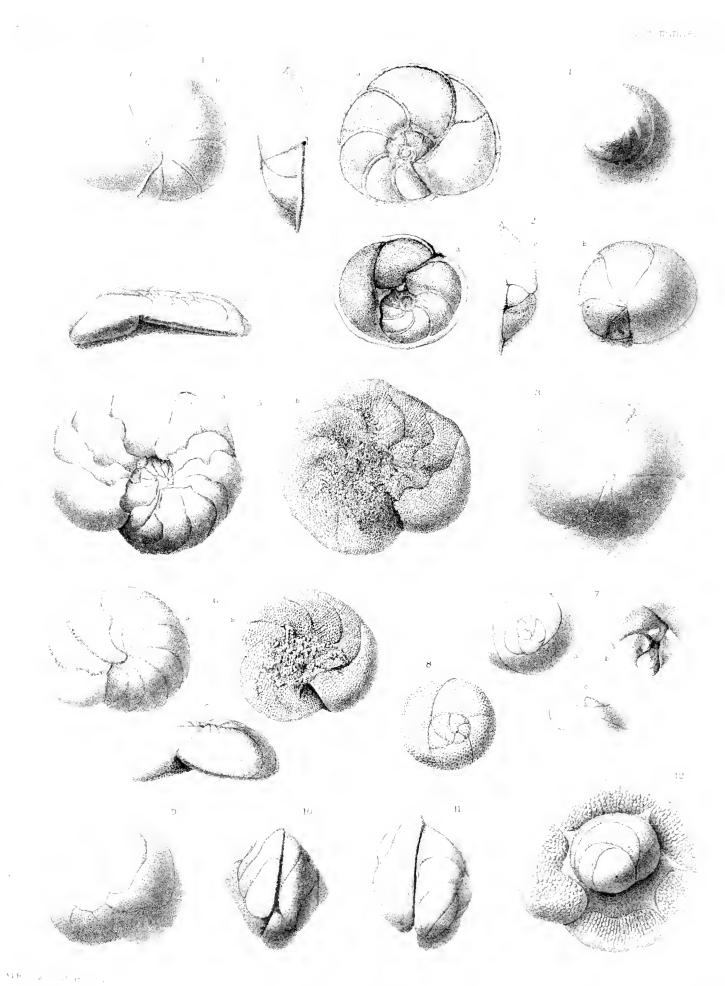


PLATE XC.

(ZOOL. CHALL EXP.—PART XXII.—1884.)— Υ .

PLATE XC.

		Diam.	Page
Figure 1.—Discorbina bertheloti, var. baconica, Hantken,			
var.,	×	75	651
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
., 2, 3.—Discorbina rarescens,	×	75	651
Fig. 2 a. Superior aspect; figs. 2 b, 3, inferior aspect; fig. 2 c, peripheral aspect.			
, 4.—Discorbina,—carinate form possibly related to			
the last-named species,	×	100	651
" 5, 6, 9-12.—Discorbina parisiensis, d'Orbigny, sp.,			648
 Figs. 5a, 6a, 9, Superior aspect; figs. 5b, 6b, inferior aspect; figs. 5c, 6c, peripheral aspect. Figs. 10-12, Double specimens. 			
Figs. 5, 6, \times 40 diam.; figs. 9, 12, \times 90 diam.; figs. 10, 11,	×	100	
,, 7, 8.—Discorbina concinna, n. sp.,	×	100	646
Figs. 7a, 8. Superior aspect; b, inferior aspect; c, peripheral aspect.			



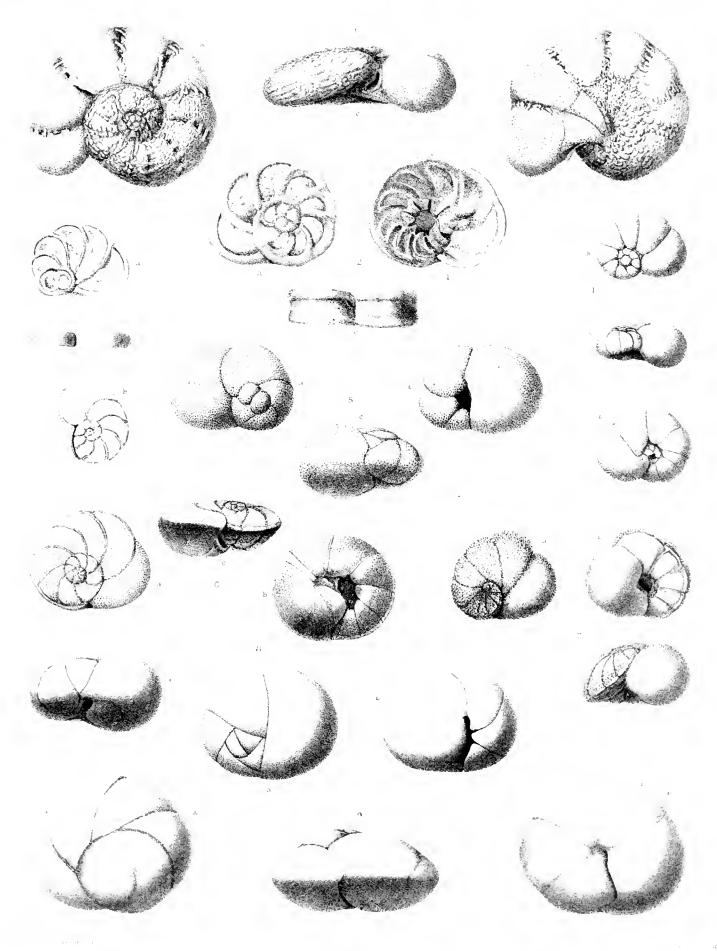
DISCORBINA.



PLATE XCI.

PLATE XCI.

		Diam.	Page
Figure 1.—Discorbina polystomelloides, Parker and Jones, .	×	30	652
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
., 2, 3.—Discorbina biconcava, Parker and Jones,	×	60	653
Figs. $2a$, $3b$, Superior aspect; figs. $2b$, $3a$, inferior aspect; $2c$, $3c$, peripheral aspect.			
4.—Discorbina rugosa, d'Orbigny, sp.,	×	90	652
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
" 5, 8.—Discorbina allomorphinoides, Reuss, sp.,			654
Fig. 5. a, Superior aspect; b, inferior aspect; c, peripheral aspect,	×	100	
Fig. 8. a , Superior aspect; b , inferior aspect; c , peripheral aspect,	×	50	
" 6.—Discorbina saulcii, d'Orbigny, sp.,	×	50	653
a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,. 7.—Discorbina ventricosa, n. sp.,	×	50	654
a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
., 9.—Discorbina obtusa (?), d'Orbigny, sp.,	×	50	644
a, Superior aspect; b, inferior aspect; c, peripheral aspect.			



DISCORBINA.

PLATE XCII.

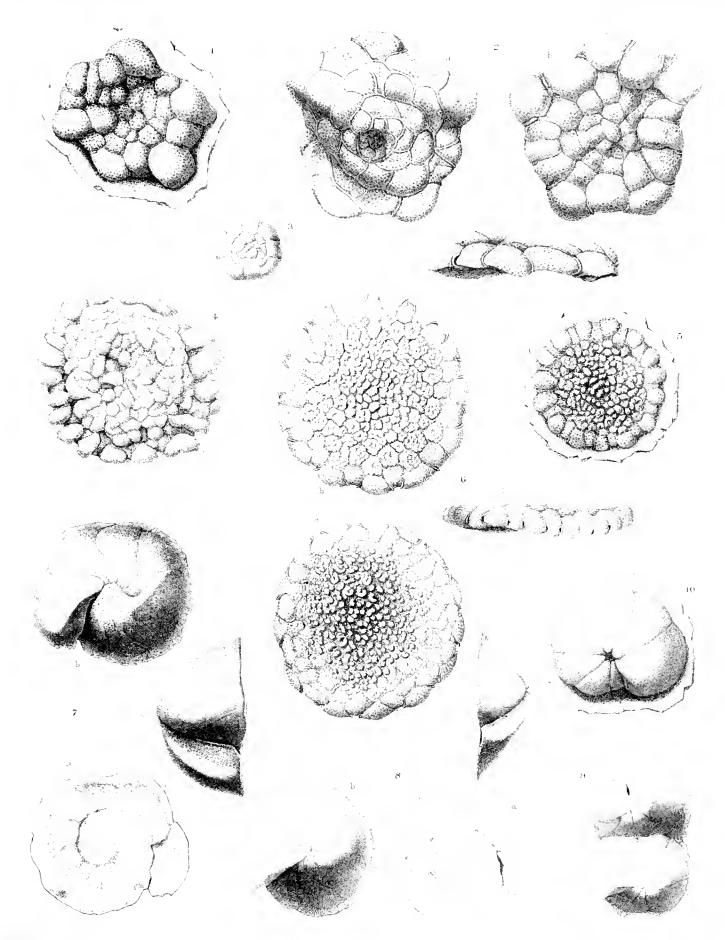
(ZOOL. CHALL, EXP.—PART XXII.—1884.)—Y.

PLATE XCII.

Planorbulina.—Truncatulina.

Figures	1-3.—Planorbulina mediterranensis, d'Orbigny, Fig. 2 a, Superior (attached) lateral aspect; figs. 1, 2 b, 3, inferior (free) aspect; fig. 2 c, peripheral aspect.	×	Diam. 35-45	Page 656
4 •	4.—Planorbulina acerralis, n. sp.,	×	35	657
7*	5, 6.—Planorbulina larvata, Parker and Jones Fig. 5. Adherent specimen. Fig. 6. a, Superior aspect; b, inferior aspect; c, peripheral aspect.	×	35	658
**	7-9.—Truncatulina refulgens, Montfort, sp., Figs. 7, 8. a,a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect. Fig. 9. Monstrous specimen.	×	30	659
7.	10.—Truncatulina lobatula, Walker and Jacob, sp Small adherent specimen.	×	60	660

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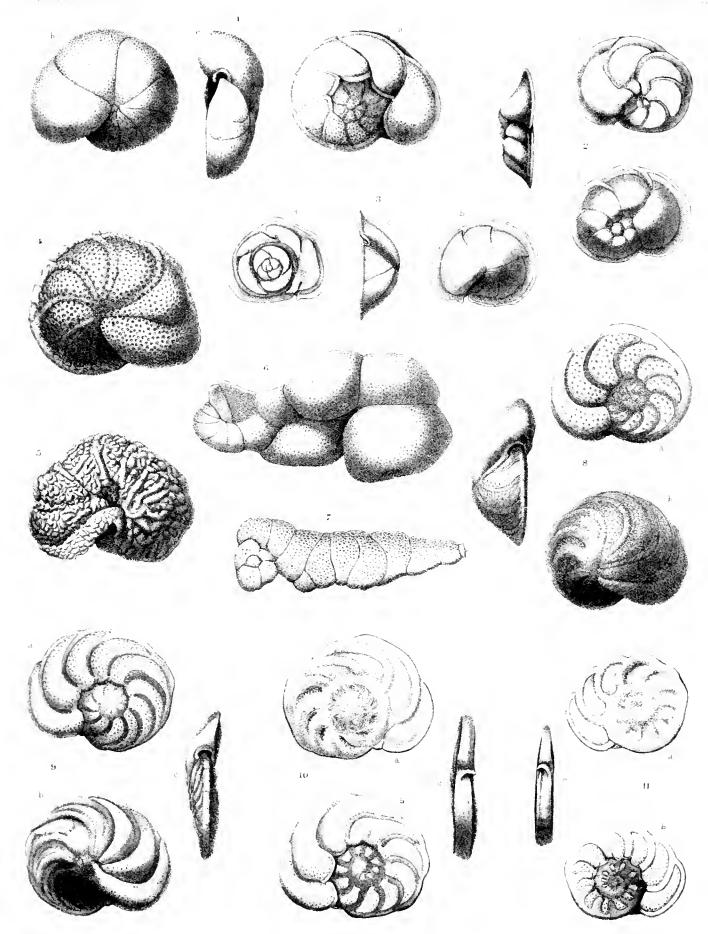


PLATE XCIII.

PLATE XCIII.

Truncatulina.—Anomalina.

Figures	1, 4, 5.— $Truncatulina\ lobatula$, Walker and Jacob, sp., .		Diam.	Page 660
	 Fig. 1. a, Superior aspect; b, inferior aspect; c, peripheral aspect, Figs. 4, 5. Old thick-shelled specimens; inferior aspect, 	×	60 40	
,,	2, 3.—Truncatulina temuimargo, n. sp., a,a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect.	×	60-100	662
1 2	6, 7.—Truncatulina variabilis, d'Orbigny,	×	50	661
,,,	8, 9.—Truncatulina wuellerstorfi, Schwager, sp.,	×	50-60	662
	a,a, Superior aspect; b,b , inferior aspect; c,c , peripheral aspect.			
7 7	10, 11.—Anomalina ariminensis, d'Orbigny, sp.,	×	55-60	674
	a,a, Superior aspect; b,b , inferior aspect; c,c , peripheral aspect.			



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PLATE XCIV.

(ZOOL. CHALL. EXP.—PART XXII.—1884.)—Y.

PLATE XCIV.

TRUNCATULINA.—ANOMALINA.

				Diam.	Page
Figure	1.—.Anomalina foveolata. n. sp.,	•	×	60	674
	a, Superior aspect; b , inferior aspect; c , perior aspect.	plieral			
,.	2, 3.—Anomalina ammonoides. Reuss, sp.,				672
	Fig. 2, \times 55 diam.;—fig. 3,	ipheral	×	90	
٠,	4, 5.—Anomalina grosserugosa, Gümbel, sp.,		×	40-45	673
	a,a, Superior aspect; b,b , inferior aspect; c,c , periaspect.	ipheral			
,,	6.—Truncatulina rostrata, Brady,	•	×	50	668
	a, Superior aspect; b , inferior aspect; c , per aspect.	ipheral			
,,	7.—Truncatulina humilis, n. sp		×	100	665
	a, Superior aspect; h , inferior aspect; c , peraspect.	ipheral			
٠,	8.—Truncatulina akneriana, d'Orbigny, sp., .		×	45	663
	a, Superior aspect; b , inferior aspect; c , per aspect.	ipheral			
11	9.—Truncatulina ungeriana, d'Orbigny, sp., .		×	35	664
	a, Superior aspect; b , inferior aspect; c , per aspect.	ripheral			

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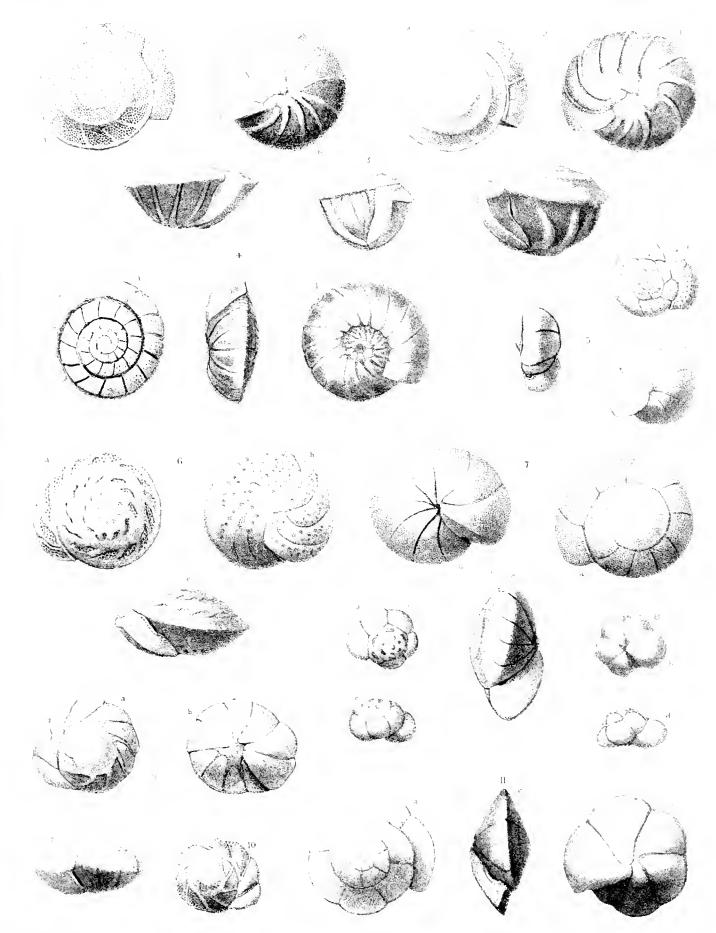
PLANORBULINA Truncatulina_Anymanna

PLATE XCV.

PLATE XCV.

TRUNCATULINA.

Π'	De The contest of the Warmer		Diam.	Page
Figures	1-3.—Truncatulina pracincta, Karrer, sp			667
	Figs. 1. 2. a,a , Superior aspect; b,b , inferior aspect; c,c , peripheral aspect,	×	30	
	Fig. 3. Young specimen,	×	35	
,,	4.—Truncatulina robertsoniana, Brady,	×	50	664
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	5.—Truncatulina dutemplei, d'Orbigny, sp.,	×	60	665
	 a, Superior aspect; b. inferior aspect; c, peripheral aspect. 			
	6.—Truncatulina, sp., intermediate form near Trun-			
	catulina haidingerii, d'Orbigny, sp., .	×	40	
7.7	7.—Truncatulina haidingerii, d'Orbigny, sp	×	30	663
	a, Superior aspect; b , inferior aspect: c , peripheral aspect.			
,,	8.—Truncatulina tumidula, n. sp.,	×	100	666
	a, Superior aspect; b , inferior aspect; c , d , peripheral aspect.			
,,	9. 10.—Truncatulina pygmæa, Hantken	×	60	666
	Figs. 9 a, 10. Superior aspect: fig. 9 b, inferior aspect; fig. 9 c, peripheral aspect.			
,,	11.—Truncatulina tenera, n. sp.,	×	75	665
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			



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PLANORBULINA Trunzalulina.

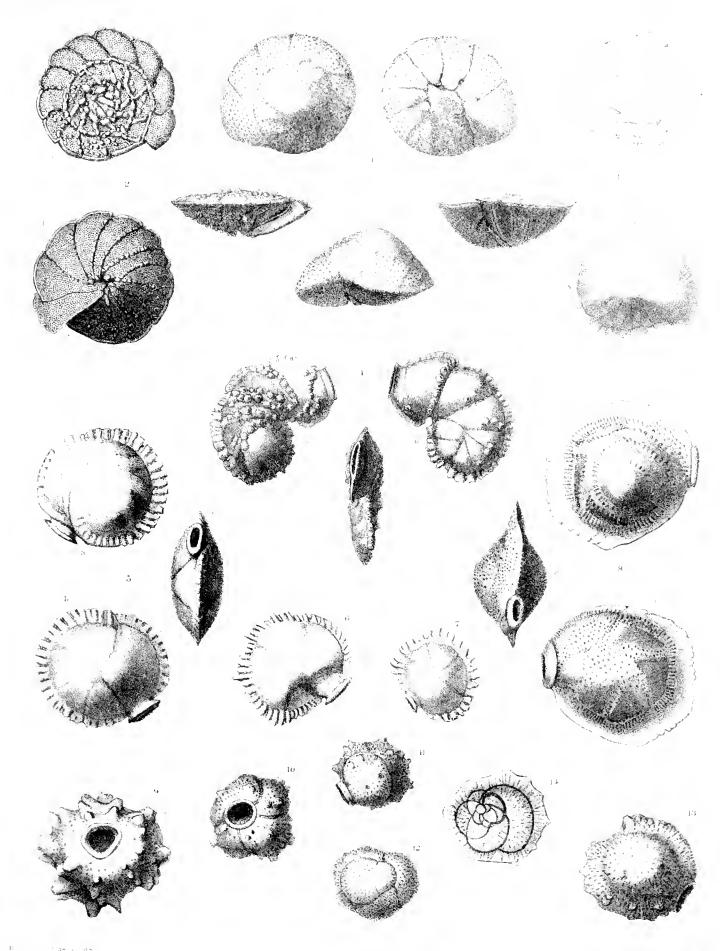
PLATE XCVI.

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PLATE XCVI.

TRUNCATULINA.

Figure	1.—Truncatulina rosea, d'Orbigny, sp.,	×	Diam. 7 0	Page 667
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
, 1	2.—Truncatulina margaritifera, Brady,	×	28	667
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	3.—Truncatulina culter, Parker and Jones, sp.,	×	90	668
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	4.—Truncatulina soluta, Brady,	×	100	670
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
٠,	5-8.—Truncatulina reticulata, Czjzek, sp.,			669
	Figs. 5–7, × 100 diam.;—fig. 8, Figs. 5 a , 8 a . Superior aspect; figs. 5 b , 6, 7, 8 b , inferior aspect; figs. 5 c , 8 c , peripheral aspect.	×	70	
., 9-	-14.—Truncatulina echinata, Brady,	×	100	670
	Figs. 9-13. Specimens in various aspects. Fig. 14. Transparent section of the test.			



PLANORBULINA Irum atamos



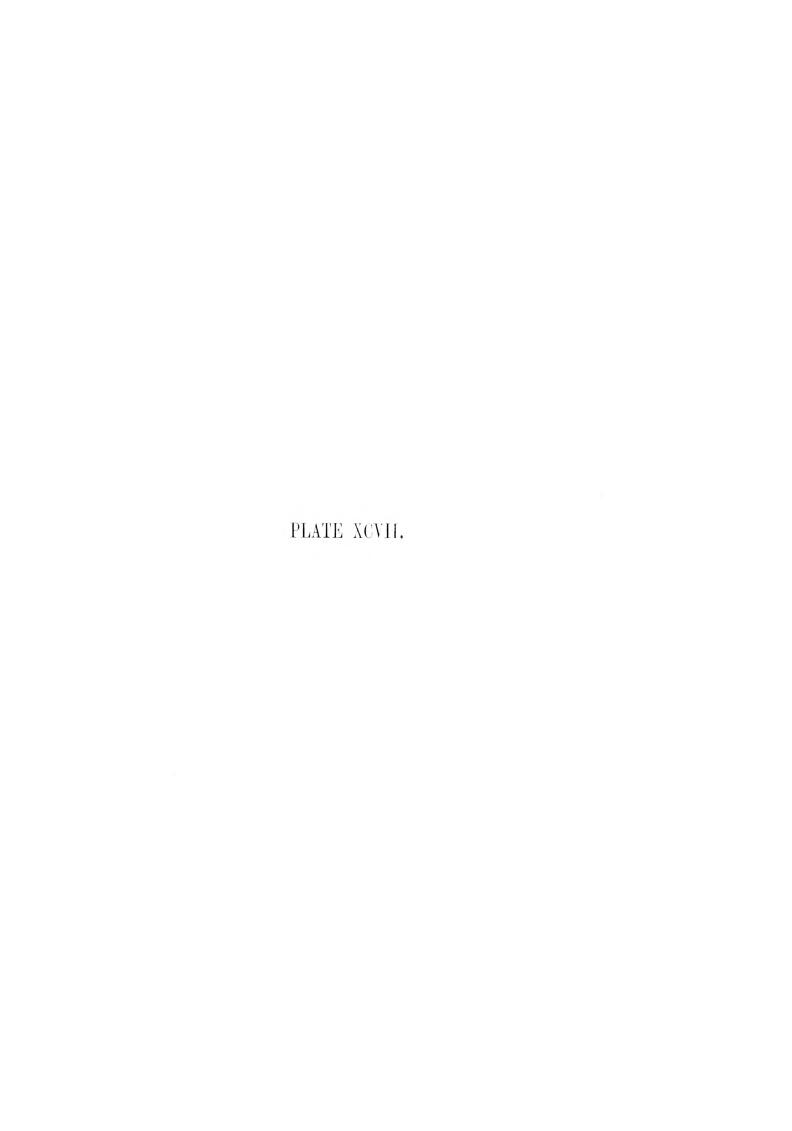


PLATE XCVII.

Anomalina.—Carpenteria.

				Diam.	Page
gures 1, 2.—.	Inomalina coronata, Parker and Jones, .				67
	 Fig. 1. a, Superior aspect; b, inferior aspect; pheral aspect, Fig. 2. Peripheral aspect. 		×	40 50	
., 3-6.—A	Inomalina polymorpha, Costa,		×	35 - 45	67
	Figs. 3-5. Lateral aspects; fig. 6, peripheral as	spect.			
7.—	Inomalina polymorpha (?), Costa,		×	45	67
	α , Superior aspect; b , inferior aspect; c , periperior aspect.	heral			
,, 8–14.—(Carpenteria proteiformis, Goës,	•			67
	Figs. 8-10. Lateral aspect.Fig. 11. Longitudinal section, not quite central ing the arrangement of the segments a	; sliow-	×	15-17	
	thickness of the walls, Figs. 12–14. Portions of the surface of differen	•	×	18	
	mens, more highly magnified, (Assigned in MS. to the allied genus Rupertial the publication of Dr. Goës' description	ι before	×	50	

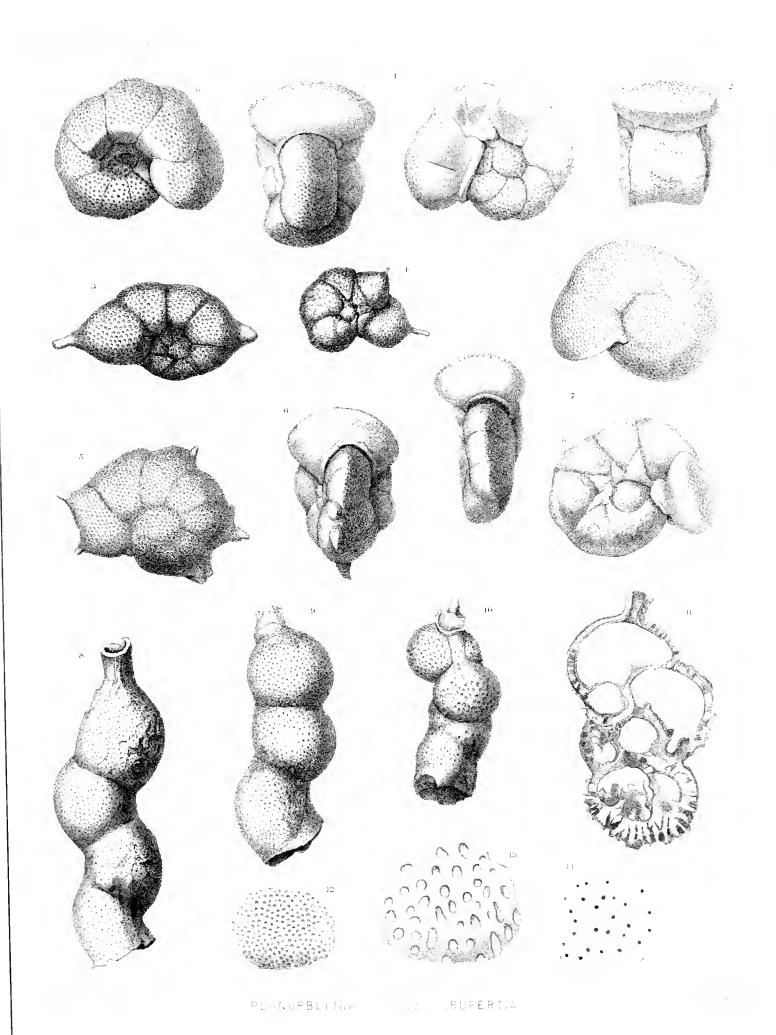
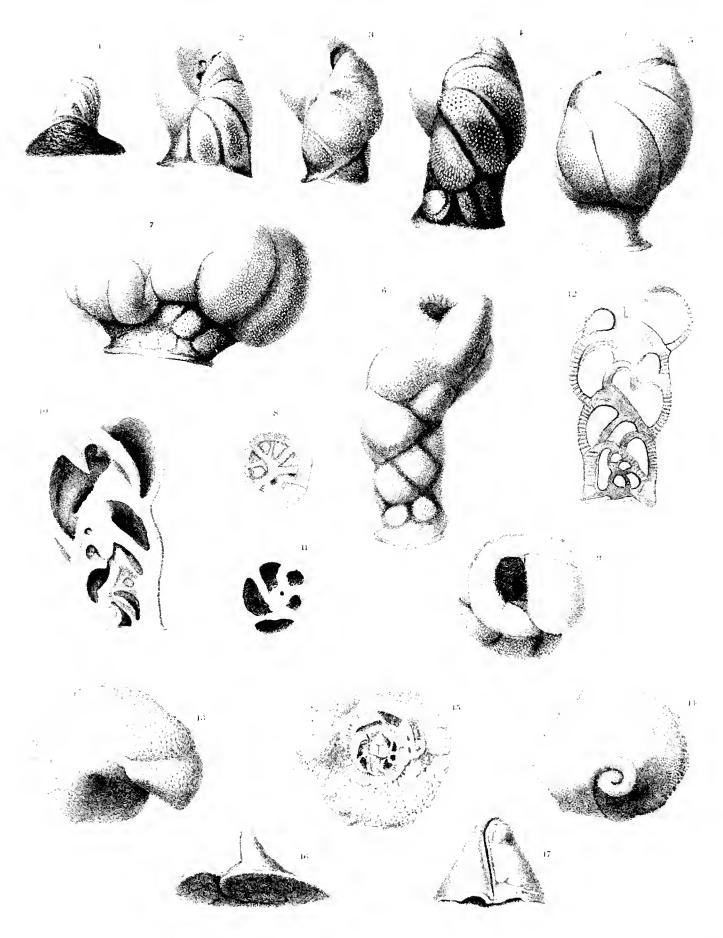


PLATE XCVIII.

PLATE XCVIII.

RUPERTIA.—CARPENTERIA.

Figures 1–12.—Rupertia stabilis, Wallich,	×	Diam 40	Page 680
 Figs. 1-6. Specimens in various conditions and stages of growth; lateral aspect. Fig. 7. Monstrous specimen. Fig. 8. Base of the test; corresponding to the superior aspect of the Rotaliform shell. Fig. 9. Distal aspect of the test. Fig. 10. Specimen laid open longitudinally, to show the segmentation. Fig. 11. Specimen laid open transversely. Fig. 12. Longitudinal section, illustrating the general structure of the test. 			
,, 13–17.—Young specimens of Carpenteria, Figs. 13, 15, 16 (Carpenteria monticularisℓ), Figs. 14, 17 (Carpenteria balaniformisℓ),	× ×	35 30-40	677



RUPERTIA ._ CARPENTERIA

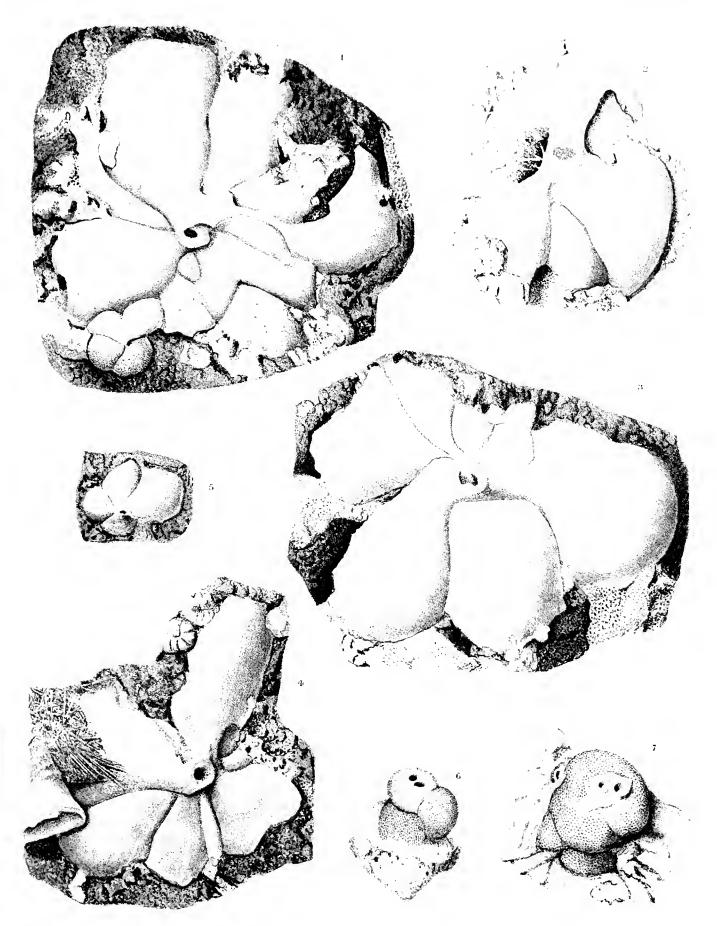




PLATE XCIX.

CARPENTERIA.

					Diam.	Page
Figures	1–5.—Carpenteria monticularis, Carter,		•	×	12	677
	Fig. 5. Early stage of growth.					
,,	6, 7.—Carpenteria utricularis, Carter,	•	•	×	15	678
	Early stages.					



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CARPENTERIA



PLATE C.

(zool. chall. exp.—part xxII.—1884.).—V.

PLATE C.

CARPENTERIA.—POLYTREMA.

Figures 1-4.—Carpenteria utricularis, Carter, Fig. 1. Early stage; figs. 2-4, adult specimens.	•	×	Diam. 15	678
,, 5-9.—Polytrema miniaceum, Linné, sp.,				721
Figs. 5-8. Specimens illustrating the general form a structure of the test, Fig. 9. Minute terminal branches with apertures,	ind	×	20 50	

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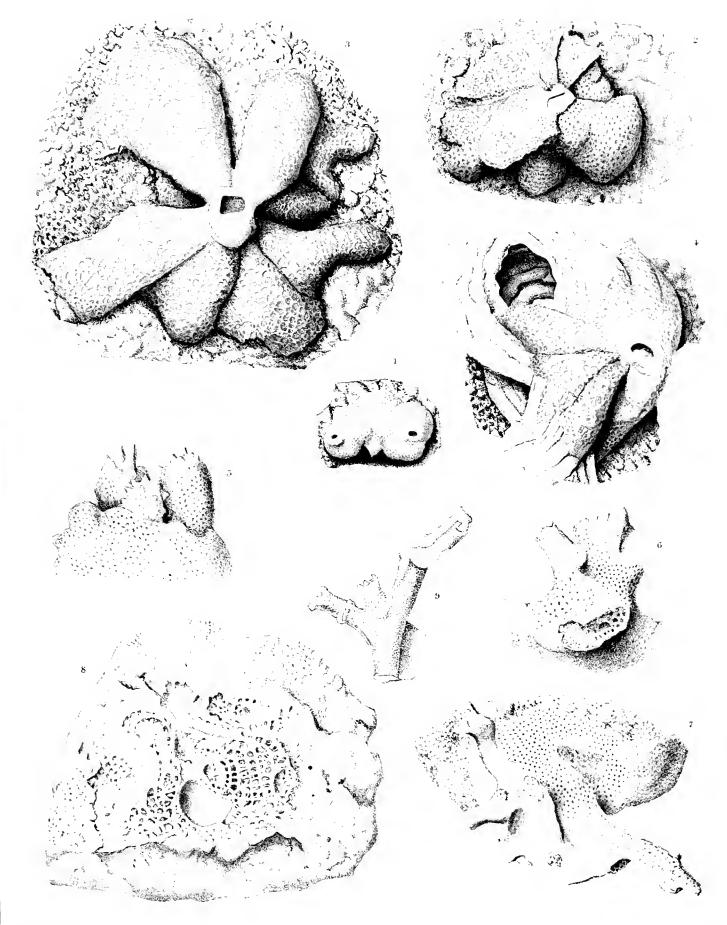




PLATE CI.

PLATE CI.

POLYTREMA.—TINOPORUS.—GYPSINA.

			Diam.	Page
Figure	1.—Polytrema miniaceum, Linné, sp.,	×	40	721
	Transparent section of the test.			
••	2. 3.—Polytrema miniaceum, var. alba, Carter,	×	30	721
	4-7.—Tinoporus baculatus (Montfort?) Carpenter,			716
	Figs. 4, 5. Lateral aspect; fig. 6, peripheral aspect,	×	30	
	Fig. 7. Transverse section of the test,	×	40	
,,	8.—Gypsina globulus, Reuss, sp	×	3 0	717
	9-12.—Gypsina vesicularis, Parker and Jones, sp.,			718
	Figs. 9-11. Various aspects of the test	×	30	
	Fig. 12. Section, viewed by transmitted light,	×	40	





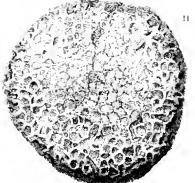




PLATE CII.

PLATE CII.

GYPSINA,—CYMBALOPORA.

			Diam.	Page
Figures	1-6.—Gypsina inhærens, Schultze, sp.,	×	30 - 40	718
	Figs. 1-3. Free surface; fig. 4, adherent surface; fig. 5, peripheral aspect; fig. 6, horizontal section of the test, viewed by transmitted light.			
,,	7-12.—Cymbalopora (Tretomphalus) bulloides,			
	d'Orbigny, sp.,	×	60	638
	 Figs. 7-10. Lateral aspect; fig. 11, superior aspect; fig. 12, inferior aspect. Fig. 7. Is drawn from a pelagic specimen; the rest from bottom specimens. 			
,,	13.—Cymbalopora poeyi, d'Orbigny, sp.,	×	50	636
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	14.—Cymbalopora poeyi, var.,	×	50	637
	a, Superior aspect; b, inferior aspect; c, peripheral aspect of a somewhat similar, more slightly built specimen.			
,,	15–18.—Cymbalopora tabellæformis, n. sp.,	×	40	637
	Fig. 15. Superior aspect; figs. 16, 17, inferior aspect; fig. 18, peripheral aspect.			

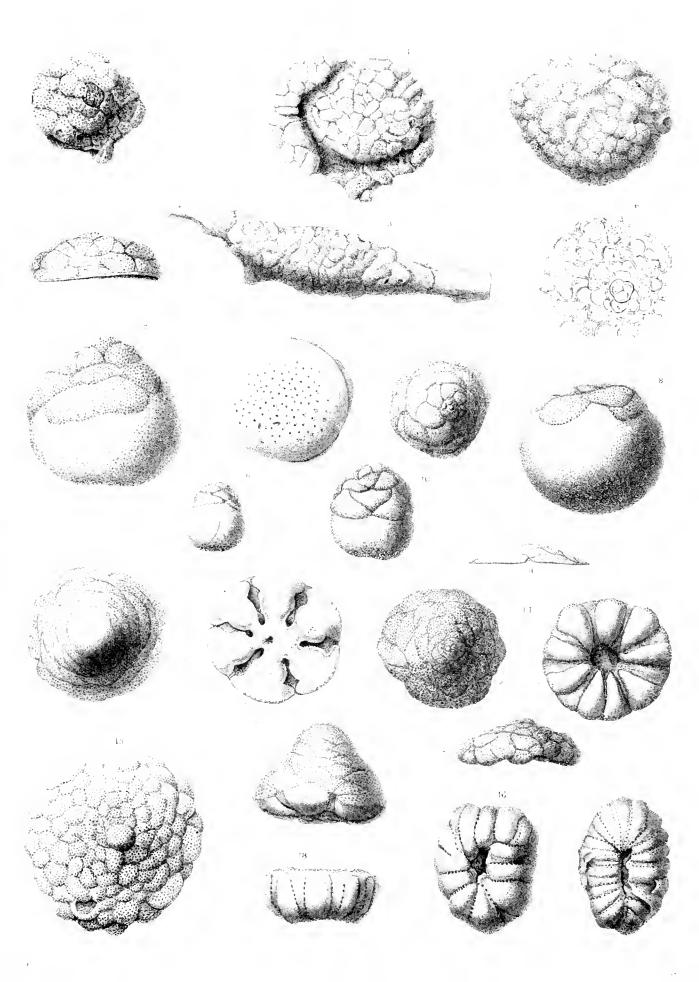


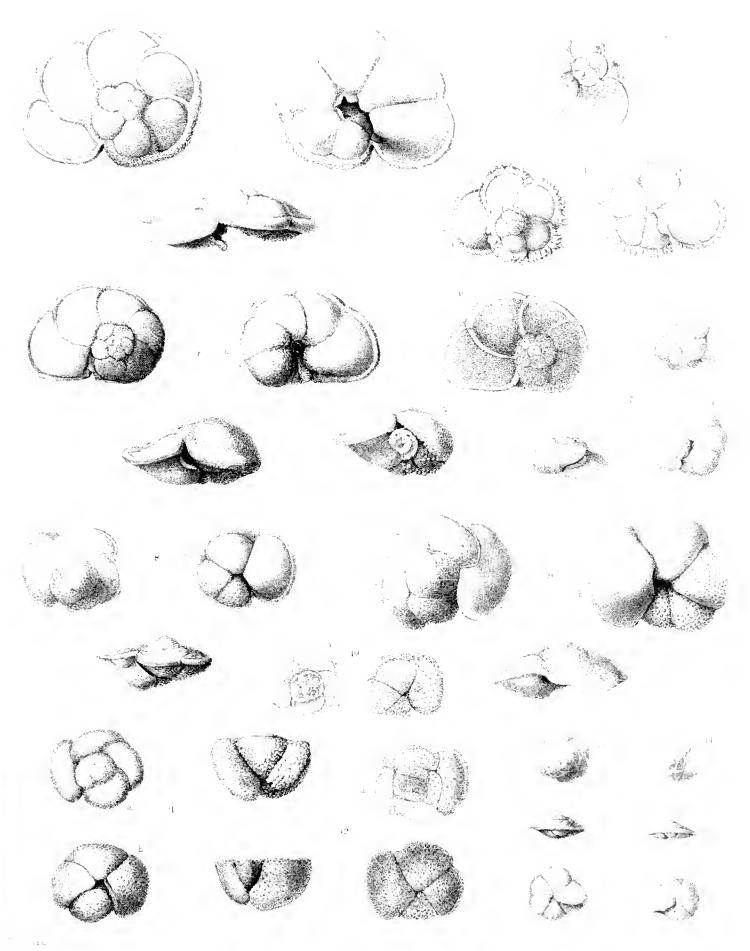


PLATE CHI.

PLATE CIII.

Pulvinulina.

			Diam.	\mathbf{P} age
Figures	1, 2.—Pulvinulina menardii, d'Orbigny, sp., .	×	35	690
	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. 			
	Fig. 1. Bottom specimen; fig. 2, surface specimen.			
,,	3.—Pulvinulina menardii, var. fimbriata, nov.,	×	35	691
	a, Superior aspect; b, inferior aspect.			
,,	4-6.—Pulvinulina tumida, Brady,	×	35	692
	 Figs. 4a, 6. Superior aspect; fig. 4b, inferior aspect; fig. 4c, 5, peripheral aspect. Figs. 4, 5. Bottom specimens; fig. 6, surface specimen. 			
,,	7.—Pulvinulina patagonica, d'Orbigny, sp.,	×	35	693
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	8-10.—Pulvinulina canariensis, d'Orbigny, sp.,	×	35	692
	a,a,a, Superior aspect; b,b,b , inferior aspect; c,c , peripheral aspect.			
	Figs. 8, 9. Bottom specimens; fig. 10, surface specimen.			
,,	11, 12.—Pulvinulina crassa, d'Orbigny, sp.,	×	40	694
	a, a, Superior aspect; b, b , inferior aspect; c, c , peripheral aspect.			
	Fig. 11. Bottom specimen; fig. 12, surface specimen.			
,,	13, 14.—Pulvinulina exigua, n. sp.,	×	40	696
	a,a, Superior aspect; b,b , inferior aspect; c,c , peripheral aspect.			



PULVINUL'NA

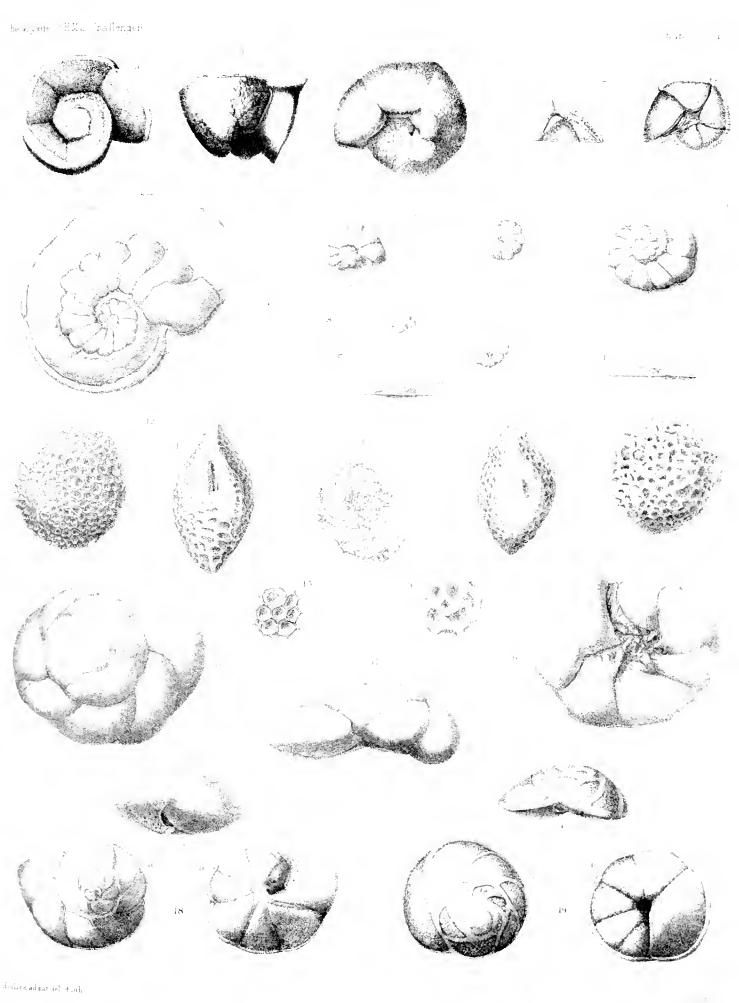
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PLATE CIV.

PLATE CIV.

PULVINULINA.

			Diam.	Page
Figures	1, 2.—Pulvinulina micheliniana, d'Orbigny, sp., a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect. Fig. 1. Bottom specimen; fig. 2, surface specimen.	×	40	694
••	3-11.—Pulvinulina pauperata, Parker and Jones, Figs. 3-9. Lateral aspects of the shell, in various stages. Figs. 10-11. Peripheral aspect.	×	25	696
**	12-16.—Pulvinulina favus, Brady, Figs. 12 a, 13 a, Lateral aspect; figs. 12 b, 13 b, peri-			701
	pheral aspect,	×	40	
	Fig. 14. Horizontal section of the test,	×	40	
	Figs. 15, 16. Portions of the surface more highly magnified,	×	80	
,,	17.—Pulvinulina punctulata, d'Orbigny, sp.,	×	16	685
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
;;	18.—Pulvinulina repanda, Fichtel and Moll, sp., .	×	30	684
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	19.—Pulvinulina repanda, var. concamerata, Mon-			
	tagu, var.,	×	3 0	685
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			



PULVINULINA



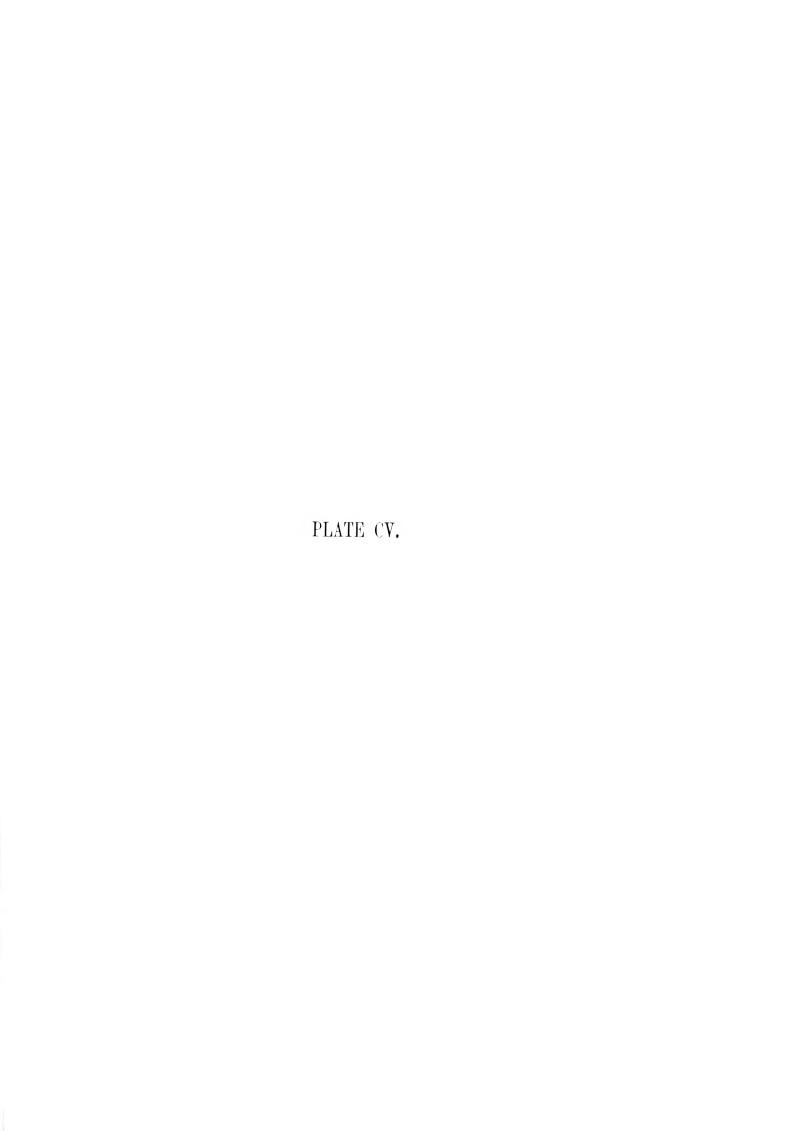


PLATE CV.

Pulvinulina.

			Diam.	Page
Figure	1.—Pulvinulina concentrica, Parker and Jones,	×	35	686
	α , Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	2.—Pulvinulina umbonata, Reuss,	×	50	695
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	3-6.—Pulvinulina elegans, d'Orbigny, sp.,			699
	Fig. 3. Deep-water form (<i>Pulvinulina partschiana</i> , d'Orbigny, sp.); a, superior aspect; b, inferior			
	aspect; r, peripheral aspect, .	×	40	
	Figs. 4, 5. Typical specimens, from medium depths, .	×	35	
	Fig. 6. Carinate specimen,	×	35	
9.4	7.—Pulvinulina procera, Brady,	×	35	698
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	8, 9.—Pulvinulina karsteni, Reuss, sp.,	×	50	698
	 Fig. 8. Specimen from Magellans Strait. Fig. 9. Arctic specimen. a,a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect. 			





PLATE CVI.

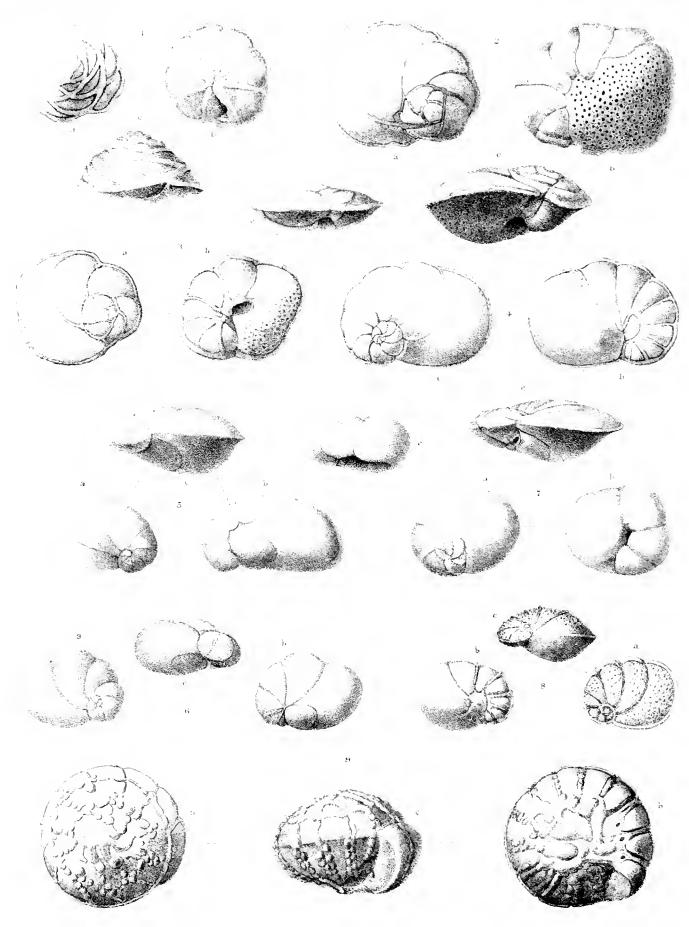
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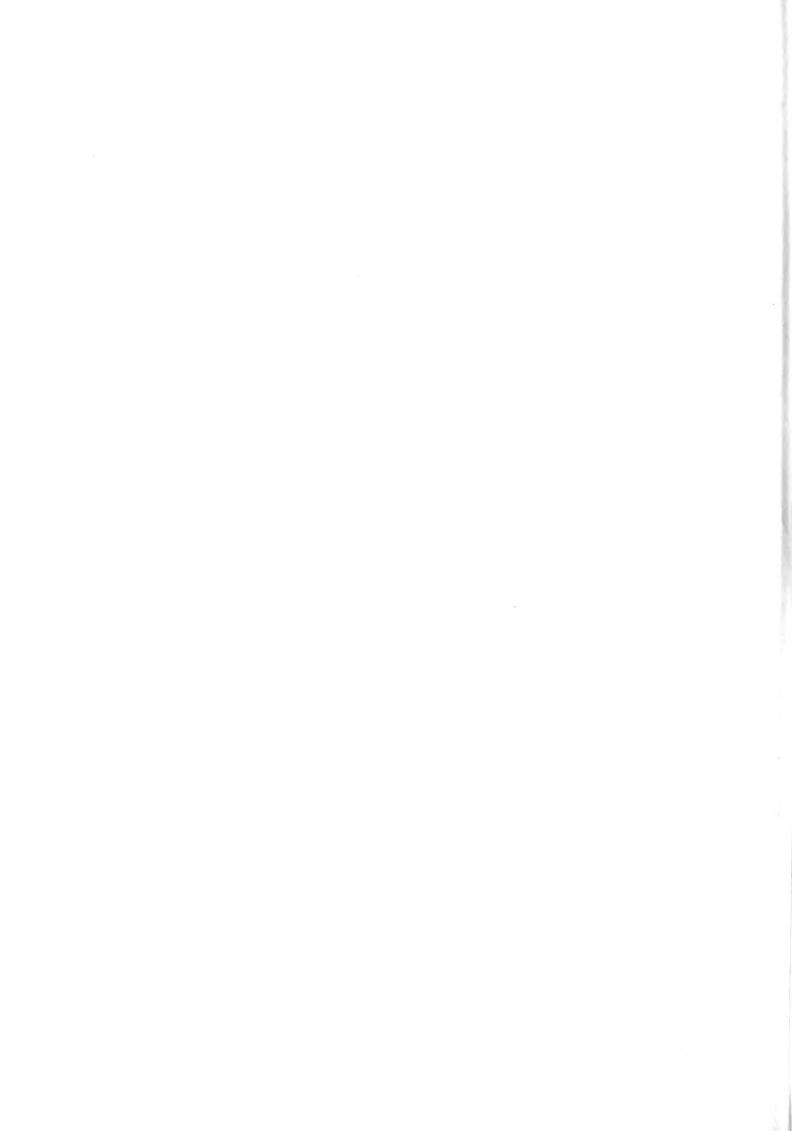
PLATE CVI.

Pulvinulina.—Rotalia.

			Diam.	Page
Figure	1.—Pulvinulina berthelotiana, d'Orbigny, sp.,	×	35	701
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	2, 3.—Pulvinulina lateralis, Terquem, sp.,	×	35-40	689
	a,a, Superior aspect; b,b , inferior aspect; c,c , peripheral aspect.			
,,	4.—Pulvinulina oblonga, Williamson, sp.,	×	40	688
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	5.—Pulvinulina anvicula, Fichtel and Moll, sp., .	×	40	688
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	6, 7.—Pulvinulina hauerii, d'Orbigny, sp.,	×	40-50	690
	a,a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect.			
,,	8.—Pulvinulina oblonga, var. scabra, nov.,	×	50	689
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	9.—Rotalia papillosa, n. sp.,	×	30	708
	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. 			

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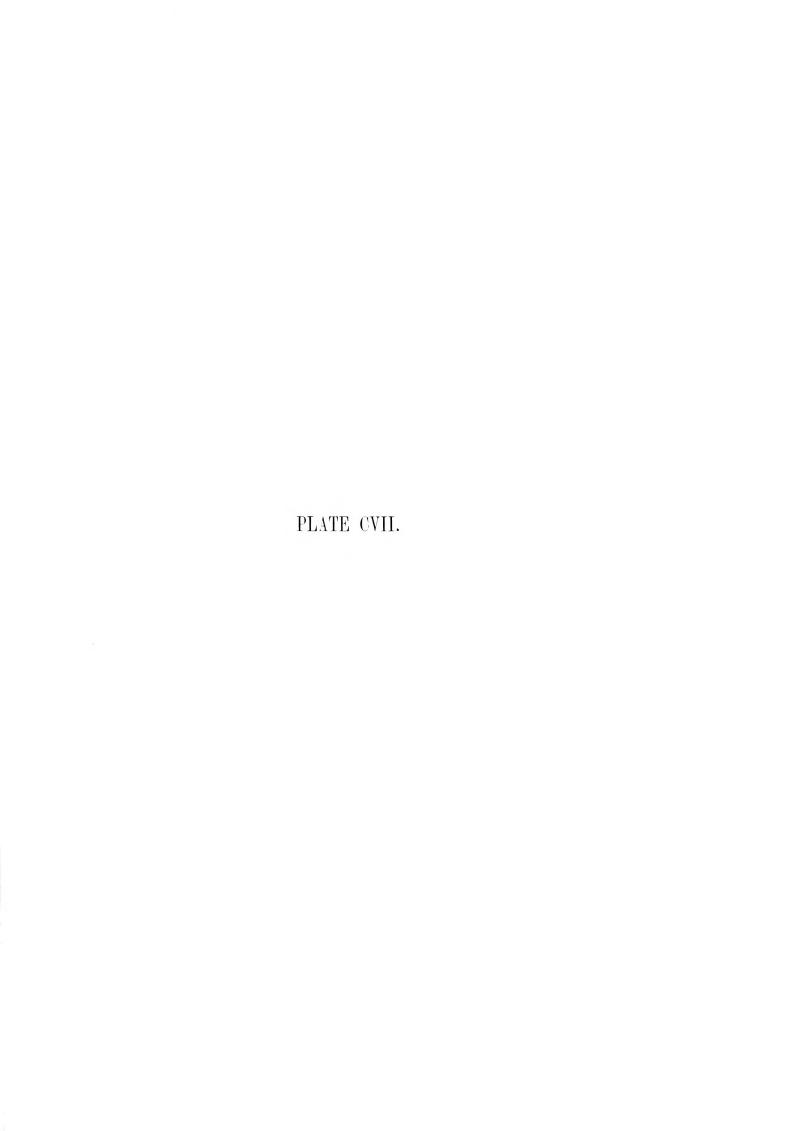
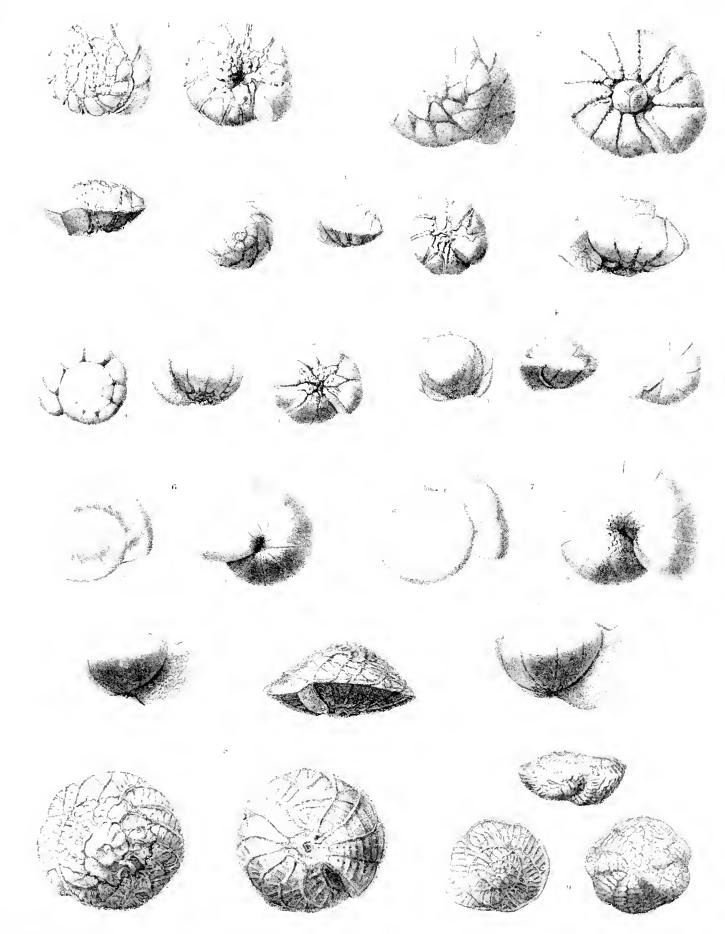


PLATE CVII.

Rotalia.

Figure	1.—Rotalia papillosa, var. compressiuscula, nov.,	×	Diam. 30	Page 7 0 8
5	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	2, 3.—Rotalia beccarii, Linné, sp.,	×	50	704
	a,a, Superior aspect. b,b , inferior aspect; e,e , peripheral aspect.			
,,	4.—Rotalia brocekhiana, Karrer,	×	50	705
	a, Superior aspect; b, inferior aspect; c, peripheral aspect.			
,,	5.—Rotalia orbicularis (?), d'Orbigny,	×	50	706
	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. (A passage-form between Rotalia beccarii and Rotalia orbicularis. The typical Rotalia orbicularis is given at Pl. CXV. fig. 6.) 			
,,	6.7.—Rotalia soldanii, d'Orbigny,	×	40	706
	a,a, Superior aspect; b,b, inferior aspect; c,c, peripheral aspect.			
,,	8, 9.—Rotalia elathrata, n. sp.,	×	50 .	709
	a,a, Superior aspect; b,b , inferior aspect; e,c , peripheral aspect.			



ROTALIA

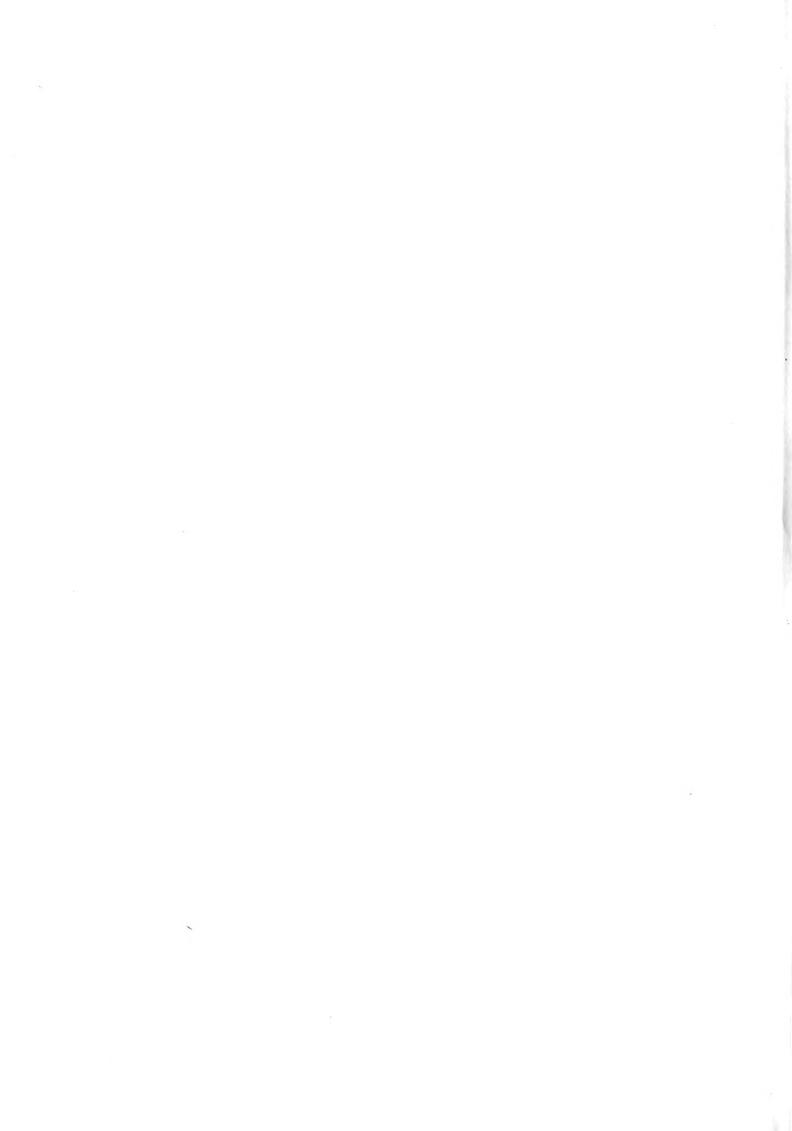
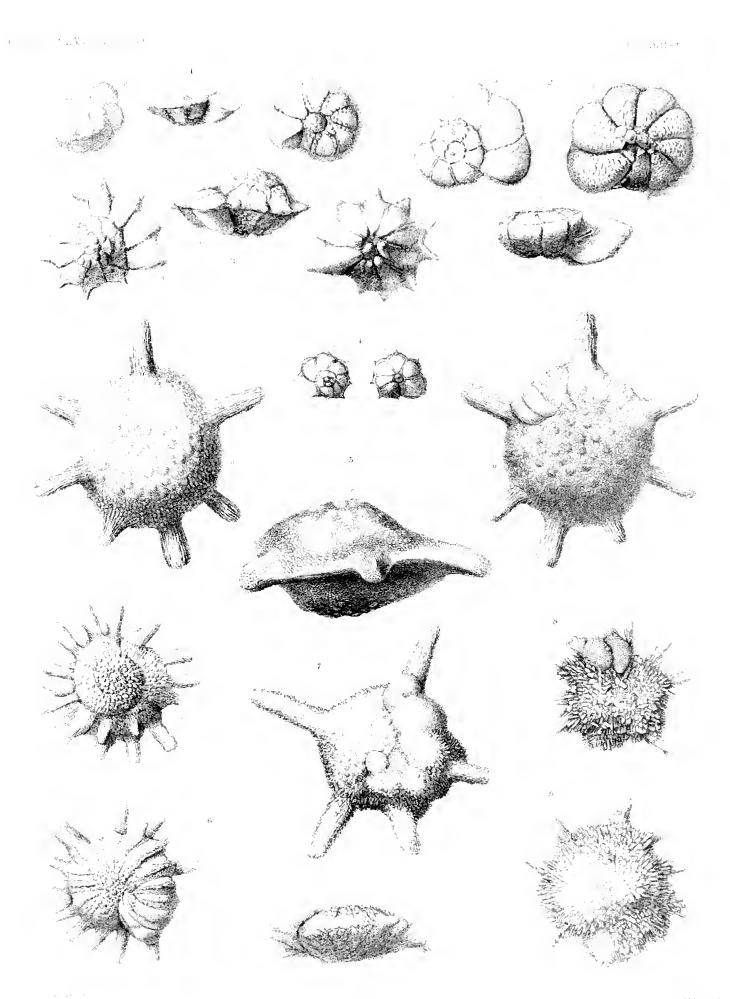


PLATE CVIII.

PLATE CVIII.

ROTALIA.—CALCARINA.

			Diam.	Page
Figure	1.—Rotalia papillosa, var. compressiuscula, nov. (young), a, Superior aspect; b, inferior aspect; c, peripheral aspect.	×	50	708
,,	2.—Rotalia venusta, n. sp.,	×	50	708
,,	3Rotalia calcar, d'Orbigny, sp.,	×	50	709
"	4. Young specimen of the same, or possibly of Rotalia dentata, Parker and Jones,	×	50	710
,,	5, 7.—Calcarina spengleri, Linné, sp.,	×	30-35	712
,,	6.—Calcarina defrancii, d'Orbigny,	×	30	714
,,	8, 9.—Calcarina hispida, Brady,	×	30	713



ROTALIA CALCARINA





PLATE CIX.

Nonionina.—Polystomella.

a, Lateral aspect; b, peripheral aspect.

			Diam.	Page
Figures	1. 2.—Nonionina asterizans, Fichtel and Moll, sp.,	×	50	728
٠,	3-5.—Nonionina stelligera, d'Orbigny,			728
	Figs. 3, 4×75 diam.;—fig. 5,	×	60	
, ,	6, 7.—Nonionina depressula, Walker and Jacob, sp	×	75	725
,,	8, 9.—Nonionina umbilicatula, Montagu, sp.,	×	70	726
,,	10, 11.—Nonionina pompilioides, Fichtel and Moll, sp	×	75	727
**	12. 13.—Nonionina boueana, d'Orbigny,	×	70	729
**	14–16.—Nonionina scapha, Fichtel and Moll, sp	×	75	730
,,	17–19.—Nonionina turgida, Williamson, sp.,	×	75	731
,,	20, 21.—Nonionina orbicularis, Brady,	×	50	727
,,	22, 23.—Polystomella striatopunctata, Fichtel and Moll.			
	sp.,	×	7 5	733

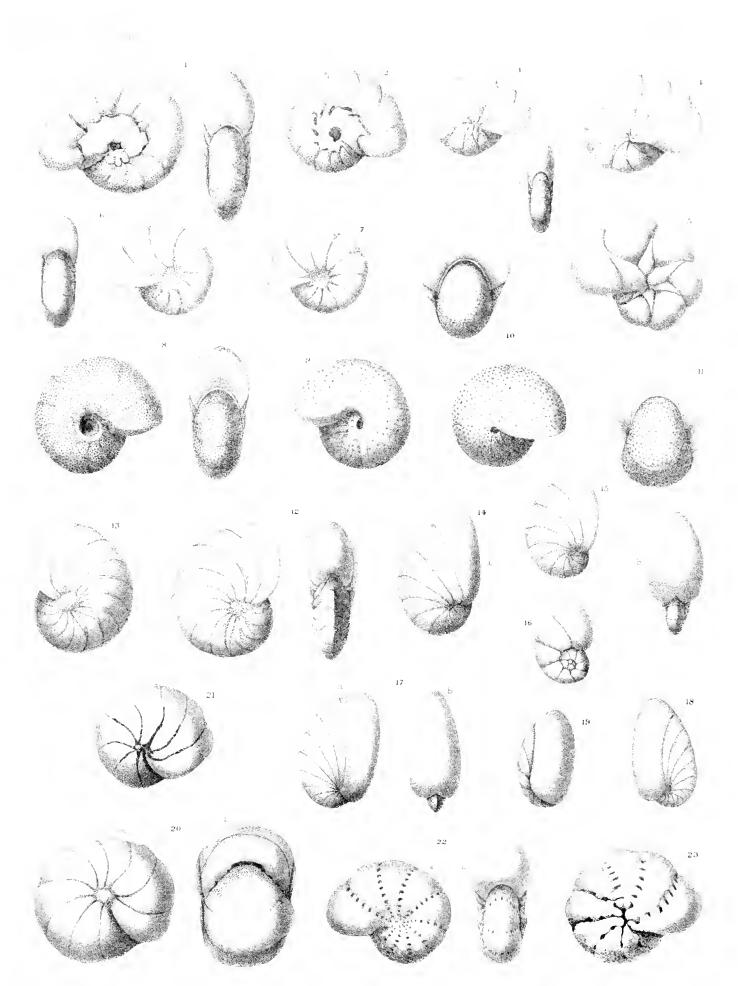




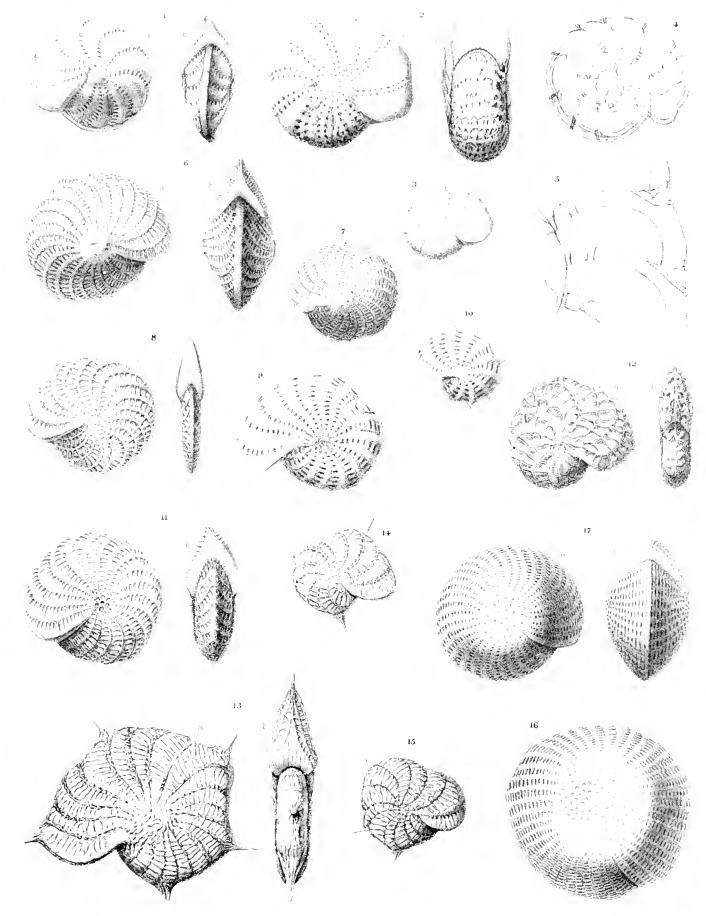
PLATE CX.

PLATE CX.

Polystomella.

	a, Lateral aspect; b , peripheral aspect.			
12.	7 D 1 . 22 J 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Diam	Page
Figure	1.—Polystomella subnodosa, Münster, sp., .	×	75	734
,,	2-5.—Polystomella arctica, Parker and Jones, .			735
	Figs. 2a, 3, Lateral aspect; fig. 2b, peripheral aspect,	×	30	
	mentation, and the laminated thickening of the walls, Fig. 5. Portion of a section, more highly magnified, showing the septal apertures, and the forked interseptal canals the openings of which form	×	30	
	the double rows of sutural orifices, .	×	100	
**	6, 7.—Polystomella crispa, Linné, sp.,	×	40	736
•••	8, 9, 11.—Polystomella macella, Fichtel and Moll,			
	sp.,	×	45 - 60	737
,,	10.—Young specimen, possibly of the same species, with the peripheral ends of the septa forming angular or pointed			
	projections,	×	60	737
27	12.—Polystomella verriculata, Brady, .	×	65	738
,,	13–15.—Polystomella imperatrix, Brady, .	×	30	738
••	16–17.—Polystomella craticulata, Fichtel and Moll, sp.,	×	30-40	739

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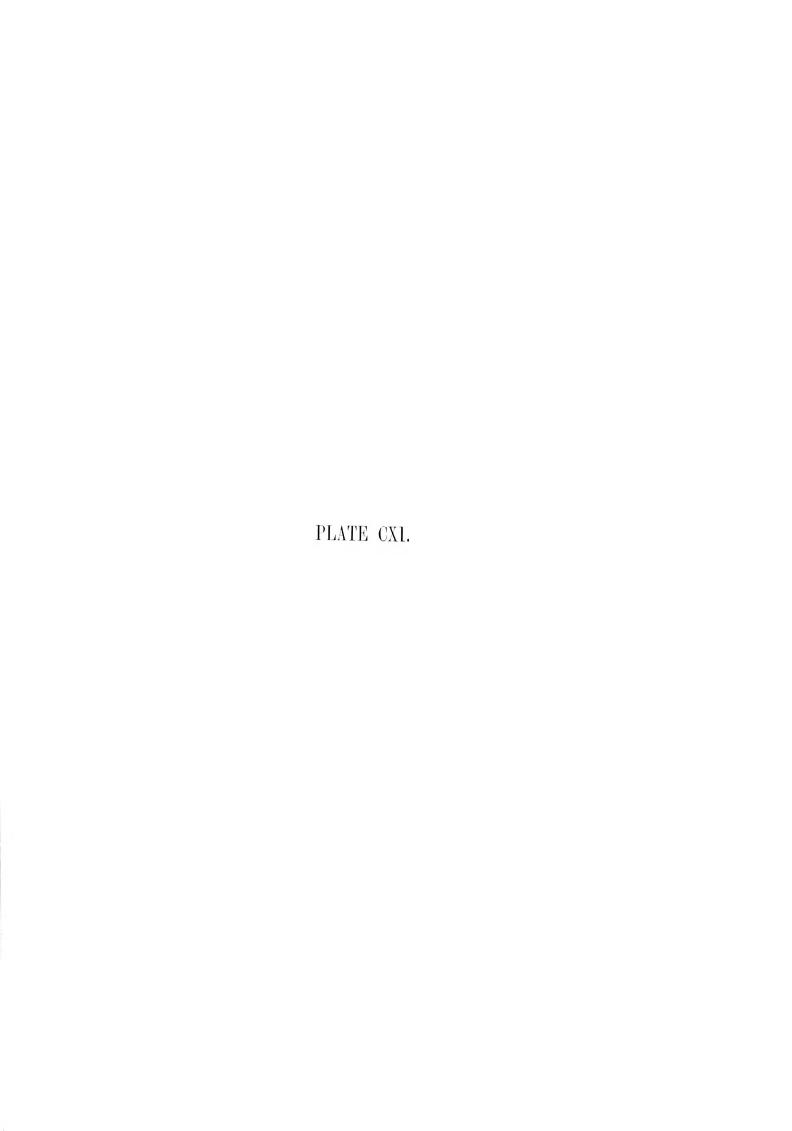
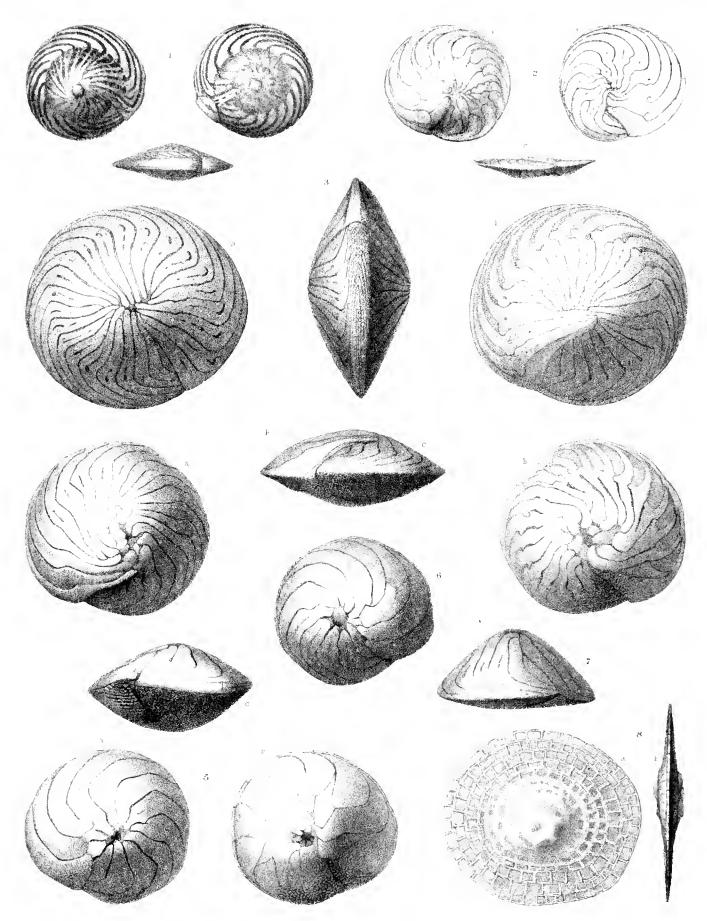


PLATE CXI.

Amphistegina.—Cycloclypeus.

		Diam.	Page
Figures 1-7.—Amphistegina lessonii, d'Orbigny,	×	30	740
 a, Superior lateral aspect; b, inferior lateral aspect; c, peripheral aspect. Figs. 1-4. Typical, compressed, lenticular form. Figs. 5, 6. Thick variety, commonly inequilateral. Fig. 7. Thick, very inequilateral or dome-shape variety. 			
,, 8.—Cycloclypeus guembelianus, Brady, a , Lateral aspect; b , peripheral aspect.	×	35	751



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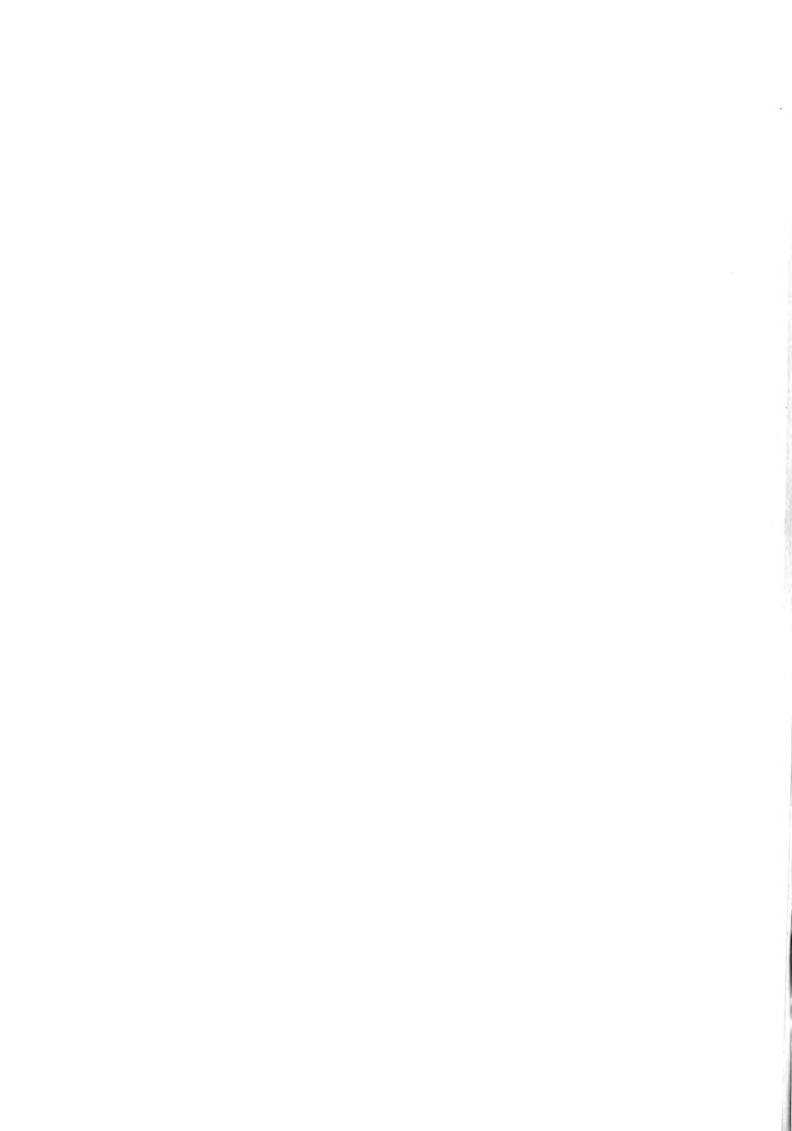


PLATE CXII.

PLATE CXII.

	OPERCULINA.—NUMMULITES.—HETEROSTEGINA.			
			Diam.	Page
Figures	1, 2.—Operculina ammonoides, Gronovius, sp., . Figs. 1 a, 2. Lateral aspect; tig. 1 b, peripheral aspect.	×	50	745
,,	3, 4, 5, 8.—Operculina complanata, Defrance, sp., Figs. 3 a, 4, 5, 8. Lateral aspect; fig. 3 b, peripheral aspect.	×	12	743
,,	6, 7, 9, 10.—Operculina complanata, var. granulosa, Leymerie,	×	12	743
,,	11–13.—Nummulites cumingii, Carpenter, .	×	18	749
	Figs. 11a, 12, 13a. Lateral aspect; figs. 11b, 13b, peripheral aspect.			
,,	14–18.—Heterostegina depressa, d'Orbigny, .			746
	Figs. 14, 15. Adult specimens, lateral aspect,	×	12	
	Fig. 16. Peripheral aspect,	×	15	
	Figs. 17, 18. Young specimens,	×	25	
,,	19, 20.— $Heterostegina$, sp.,			746
	Young specimens (cf. Heterostegina curra, Moebius),	×	25	

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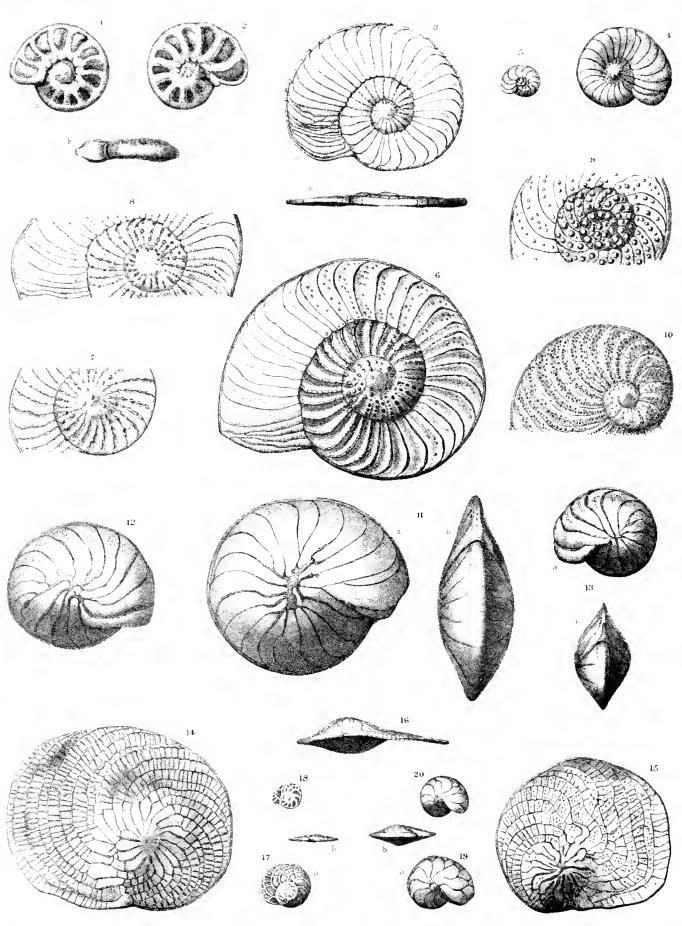
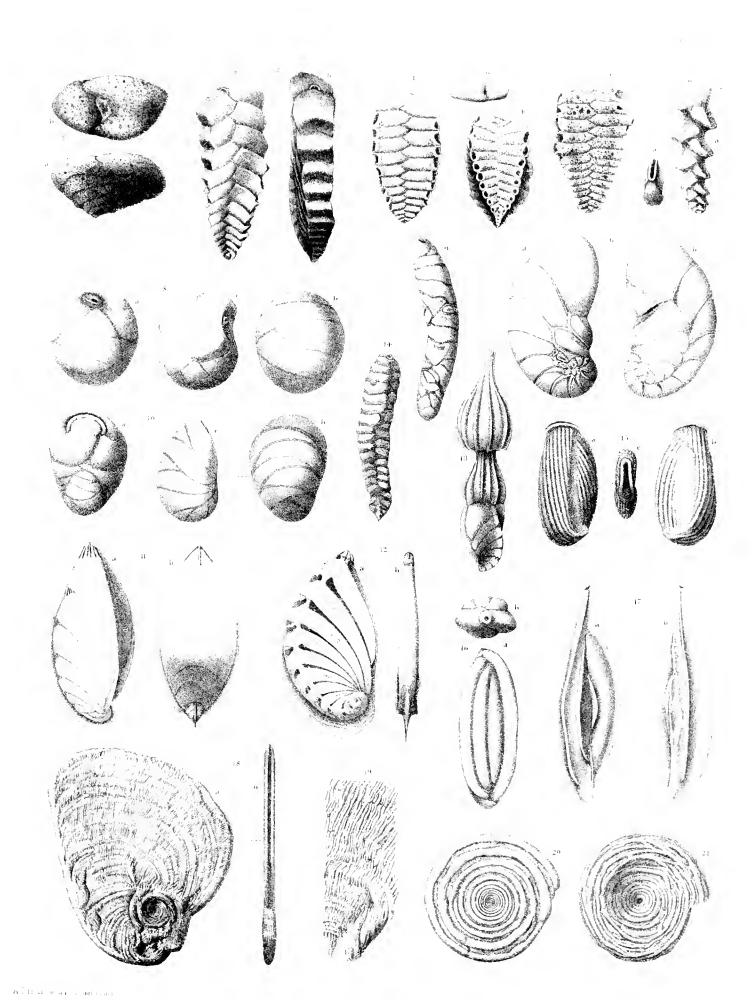






PLATE CXIII.

	Textularia.—Cassidulina.—Cornuspira, &	ke.	7.2	7.
Figure	1.—Textularia conica, d'Orbigny, short variety, a, Lateral aspect; b, oral end.	. ×	Diam. 50	Page 365
••	2.—Textularia crispata, n. sp., a, Lateral aspect; b, peripheral aspect.	. ×	60	359
,,	3-5.—Textularia transversaria, n. sp., . Figs. 3 a, 4, 5. Lateral aspect; 3 b, oral end.	. ×	75	359
, ,	6.—Bulimina convoluta, Williamson, . a, Superior aspect; b, inferior aspect.	. ×	100	409
,.	7.—Bolivina lobata, var. strigosa, nov a, Lateral aspect; b, oral end.	. ×	80	425
,,	S.—Cassidulina calabra, Seguenza, sp., a, b, Ventral and dorsal peripheral aspects; c, lateral aspect.	. ×	75	431
,•	9.—Cassidulina (Orthoplecta) clavata, n. sp.,	. ×	100	432
,,	10.—Ehrenbergina pupa, d'Orbigny, sp., a, b, Ventral and dorsal peripheral aspects; c, latera aspect.	. ×	80	433
,,	11.—Cristellaria latifrons, n. sp., a , Lateral aspect; b , front peripheral aspect.	. ×	35	544
,,	12.—Cristellaria dentata, Karrer,	. ×	35	540
, ,	13.—Amphicoryne, sp. $(?)$. ×	50	556
,,	14.—Sagrina limbata, n. sp.,	. ×	100	586
,,	15.—Miliolina scrobiculata, n. sp., a, b, Lateral aspects; c, oral aspect.	. ×	50	173
**	16.—Miliolina pygmwa, Reuss, sp.,	. ×	45	163
,,	17.—Miliolina ferussacii, d'Orbigny, sp., Lateral aspects.	. ×	30	175
,, 18	, 19.—Cornuspira striolata, Brady, Fig. 18. a, Lateral aspect; b, peripheral aspect, Fig. 19. Portion of the surface, more highly magnified	. × l, ×	5 20	202
2.2	20.—Cornuspira crassisepta, Brady,	. ×	60	202
*1	21.—Cornuspira lacunosa, Brady,	. ×	60	202



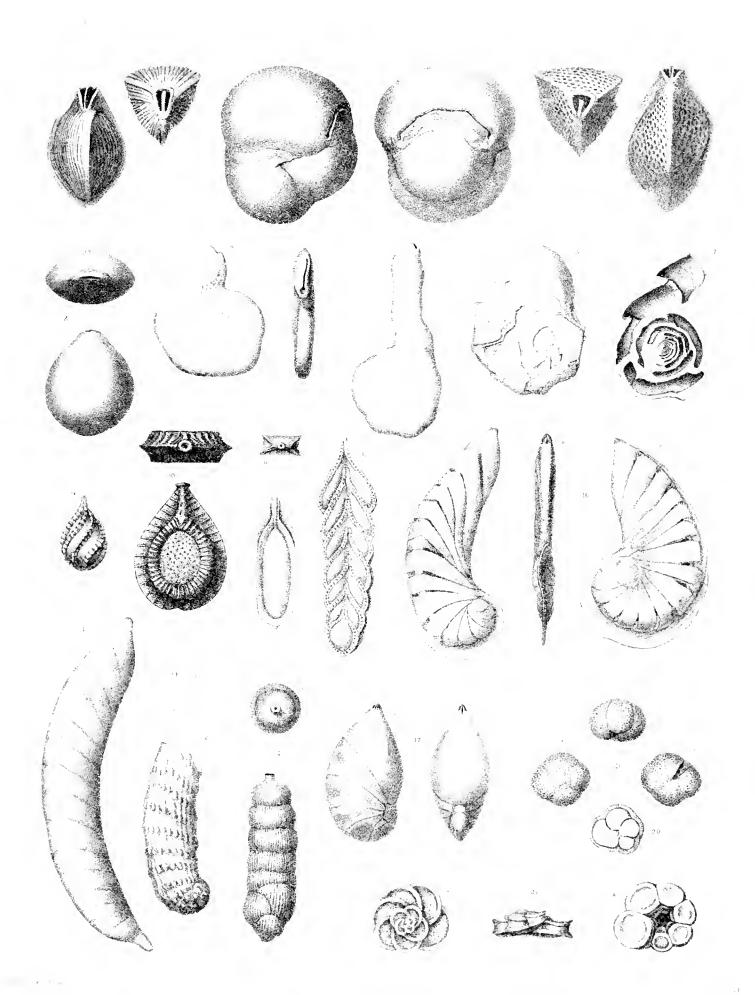
TEXTULARIA_CASSIDULINA,



PLATE CXIV.

PLATE CXIV.

	Miliolina.—Planispirina.—	Lagena,	&c.			
Eionno	1 Milisling topography n. sp.			~	Diam. 60	Page 166
Figure	1.—Miliolina terquemiana, n. sp., a. Lateral aspect; b, oral aspect.	•	•	×	00	100
*,	$2Miliolina \ bertheliniana, n. sp.,$	•	٠	×	100	166
••	3.—Miliolina bacculenta, n. sp., a, Lateral aspect; b, oral aspect.	•		×	20	170
., 4	4-7.—Planispirina communis, Seguenza, . Figs. 4a, 5, 6. Lateral aspect; b, periphera Fig. 5. Abraded specimen, showing line lamination of the shell. Fig. 7. Horizontal section of the shell.		· nu-	×	20	196
* *	8.—Lagena lavigata, Reuss. sp., a, Lateral aspect; b, oral aspect.			×	70	473
	9.—Lagena spiralis, n. sp.,			×	120	468
**	10.—Lagena formosa, var. brevis, nov., . a, Lateral aspect; b, oral aspect.	•	٠	×	100	480
••	11.—Lagena quadrangularis, n. sp., a, Lateral aspect b, oral aspect.			×	100	483
, •	12.—Frondicularia archiaciana, d'Orbigny,			×	60	520
• •	13.—Vaginulina legumen, var. arquata, nov.	, .		×	15	531
.,	14.—Cristellaria wetherellii, Rupert Jones, sp	., .		×	18	537
,, 15,	16.—Cristellaria compressa, d'Orbigny, . Figs. 15, 16 a, Lateral aspect; b, front perip	heral aspect		×	10	538
**	17.—Cristellaria acutanvicularis, Fichtel and a, Lateral aspect; b, front peripheral aspect.	Moll, sp.,		×	70	543
**	18.—Sagrina nodosa, Parker and Jones, . a, Lateral aspect; b, oral aspect.			×	70	583
19,	 20.—Globigerina pachyderma, Ehrenberg, sp. Fig. 19. a, Superior aspect; b, inferior aspect aspect. Fig. 20. Horizontal section of the shell. 		Pral	×	50	600
,,	21.—Globigerina linnaama, d'Orbigny, sp., a, Superior aspect; b, inferior aspect; c, pe Copied from d'Orbigny.	ripheral aspe	• ect.			598



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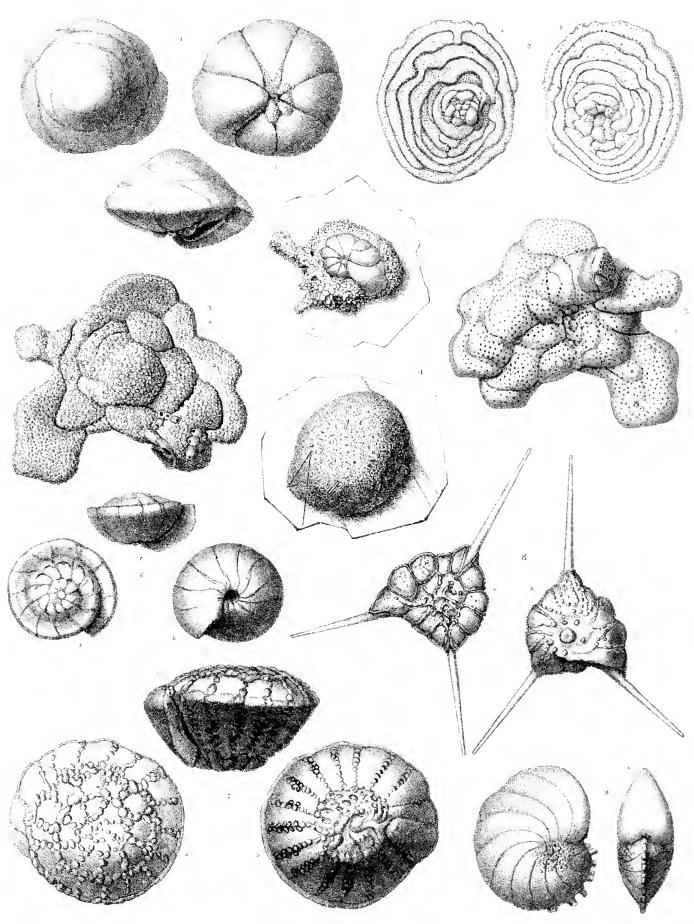




PLATE CXV.

Pulvinulina.—Rotalia, &c.

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Figure	1.—Pulvinulina schreibersii, d'Orbigny, n. sp.,	×	30	697
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	2.—Pulvinulina vermiculata, d'Orbigny, sp.,	×	30	687
	a, Superior aspect; b , inferior aspect.			
,,	3.—Pulvinulina dispansa, n. sp.,	×	14	687
	a, Superior aspect; b , inferior aspect.			
,, 4,	5.—Truncatulina lobatula, Walker and Jacob, sp., .	×	30	660
	Fig. 4. Adherent specimen enclosed in a nidus of sand. Fig. 5. Similar specimen, the sand partially removed.			
,,	6.—Rotalia orbicularis, d'Orbiguy,	×	50	706
	 a, Superior aspect; b, inferior aspect; c, peripheral aspect. 			
,,	7.—Rotalia schroeteriana, Parker and Jones,	×	25	707
	a, Superior aspect; b , inferior aspect; c , peripheral aspect.			
,,	8.—Rotalia pulchella, d'Orbigny, sp.,	×	50	710
	a, Superior aspect; b , inferior aspect.			
,,	9.—Nonionina boucana, var. armata, nov.,	×	60	730
,,	a, Lateral aspect; b , peripheral aspect.			



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